

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

APPENDIX D

DISTRICT 3 DOCUMENTATION

Meeting Sign-in Sheets
Meeting Minutes
Survey Results
Mitigation Projects

SOUTHWEST MONTANA JURISDICTIONS

Beaverhead County
Broadwater County
Gallatin County
Jefferson County
Lewis and Clark County
Madison County
Meagher County
Park County
Sweet Grass County

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Meeting Sign-in Sheets

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 2/23/07

LOCATION: Bozeman

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Adam Edelmann	MSU - IT Security Mgr	~ 4	aedelmann@montana.edu
Betty Kalakian	ECCHD Emergency Prep. Coord.	1	betty.kalakian@montana.gov
Glean Puffer	MSU - Student Affairs	5	gpuffer@montana.edu
Buck Taylor	Director, Gallatin Community Clinic	1	taylorB@chphealth.org
Jason Shrauger	Bozeman FIRE DEPT Gallatin Co Emer Mgmt.	1	jshrauger@bozeman.net
Kent Atwood	MT-D.E.S.	NA	Katwood@mt.gov
Mary Bell	Tetra Tech		mary.bell@tetratech.com
Daphne Digovindakis	Tetra Tech		daphne.digovindakis@tetratech.com
LARRY B. ALKERS	Tetra Tech	90	alpbab@ixi.net

Meeting State Time: 12:30

Meeting End Time: 2:30

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 12 MARCH 2007

LOCATION: Dillon, MT

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
LARRY B. AKERS	Tetra Tech		
Julie Johnson	State of MT - ^{Montana} Heritage Comm	110	juljohnson@mt.gov
Jim Carr-Job	" "	110	JCarr@MT.GOV
Archie Matthews	Grasshopper Vol F.D	90	jka3541@smtel.com
Scott Marsh	BVHD Co.		smarsh@co.beauregard.mt.us
Frank Mastandrea	BVHD Co.		FMASTANDREA@ CO.BEAUREGARD.MT.US
Daphne Digrindakis	Tetra Tech	NA	daphne.digrindakis@tetratech.com
KENT ATWOOD	MT-DES	NA	Katwood@mt.gov
LARRY LAKNA	BVHD Co DRS	NA	llakna@co.beauregard.mt.us
Tom Rice	BVHD CO COM.		
GARTH HANGLUND	BVHD CO COM		
Marty Malesuk	MAYOR - Dillon	NA	MAYOR@dillonMT.ORG

Meeting State Time: 12 NOON

Meeting End Time: 1400

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE MEETING

DATE: 3/12/07

LOCATION: DILLON, MT

Name	Affiliation/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
J.S. Turner	Director City of Dillon - of Operations	N/A	operations@dillonmt.org

Meeting State Time: 12:00

Meeting End Time: 14:00

**MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE
DISTRICT 3 - LOCAL MEETING**

DATE: April 20, 2007

LOCATION: Helena, Montana

Name	Jurisdiction/Title	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Valentine D. Sworts	Lewis & Clark City-County Health Dept L & C Co / Preparedness Pl. Spec.	4	vsworks@co.lewis-clark.mt.us
Jim Murphy	State Health Dept.	0	jmurphy@mt.gov
Alan Stine	Olympus Technical Services		astine@olytech.com
Brett Friede	Sgt - Lewis & Clark County Sheriff's Office	Ø	447-8293
Lou Antonick	State of Montana - Dept. of Admin Emergency Mgmt. Specialist	Ø	loantonick@mt.gov 444-1462
JEFF ADAMS	M.R.L., TRAILMASTER, GARRISON - LIVESTOCK	Ø	JADAMS@MT.RAIL.COM 447-2357
Clint Loobey	Yellowstone Pipeline, ConocoPhillips Area Supervisor	2	clint.B.Loobey@conocophillips.com 442-6395 x20
Cindy Bender	Vol. American Red Cross Lewis & Clark	Ø	cbender@mt.gov 461-2861
Rocky Infanger	Fire Chief Wolf Creek/Craig Fire Service Area	40	rocky@3riversdbs.net
Kevin Skaalure	Gen. Mgr KMTX AM/FM / LEPC member	Ø	kskaalure@kmtxradio.com
Randy Lilje	City of Helena, Parks	2	rlilje@ci.helena.mt.us
Eric Spangenberg	City of Helena / L & C Co. GIS	Ø	espangenberg@co.lewis-clark.mt.us

Meeting Start Time:
PAUL SPENGLER LEWIS & CLARK CO. DES
Pat McKeelwey L & C Co DES
Kent Amundson MT DES

Meeting End Time:
0 pspengler@co.lewis-clark.mt.us
0 mckeelwey@co.lewis-clark.mt.us

MONTANA STATE PRE-DISASTER MITIGATION PLAN UPDATE

DISTRICT 3 - LOCAL MEETING

DATE: April 20, 2007

START 1:30 pm
FMOH 3:30 pm

LOCATION: Helena, Montana

Nan Johnson FEMA 8 Mitigation Div (Denver CO) nan.johnson@dhs.gov

Name	Jurisdiction/Title (Affiliation, Agency, Organiz., Office)	Miles Traveled Round Trip to Attend Meeting	E-mail Address or Phone No.
Daphne Digrindakis	Tetra Tech		daphne.digrindakis@tetratech.com
Shawn Haugen	City of Helena		Shaugen@ci.helena.mt.us
BRANDT SALO	CITY of HELENA		bsalo@ci.helena.mt.us
Beth Norberg	County Health		bnorberg@co.lewis-clark.mt.us
Frank Proskor	L&C County Health		Fproskor@co.lewis-clark.mt.us
KELLY BLAKE	COUNTY PLANNING		Kblake@co.lewis-clark.mt.us
Paul Putz	City/County Historic Preservation		PPUTZ@co-lewis-clark.mt.us
Diana L. Moore	Co. DES / DPHHS - SHAC		blamoore@mt.gov
Sunny Stiger	L&C County Rural Fire Council		stigerem@iq-tech.com
Sandra Hare	L&C DES		
Dave Jeseritz	L&C G-M Administrator		djeseritz@ci.helena.mt.us
MARK Leum	Helena P.D. Abol		MLeum@ci.helena.mt.us

Meeting Start Time:

Meeting End Time:

Jim Wilburn

F. Patrick Crowley

M.E. "Mackey" Nelson, County

L&C County Planning

L&C Co Water Quality Prod. Dist.

MT. DEQ / Solid Waste Pgm.

L&C Co. Carbores

5 mi

m mchugh@co.lewis-clark.mt.us

jwilburn@co.lewis-clark.mt.us

pcrowley@mt.gov

M Nelson @ Co. Lewis-Clark. mt. US.

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Meeting Minutes

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Friday, February 23, 2007

Time: 12:30 pm – 2:30 pm

Place: EOC Bozeman, Montana

Meeting Attendance:

Adam Edelman, MSU-Bozeman, IT Security Manager

Betty Kalakay, Gallatin Co.- Comm. Health Department, Emergency Preparedness
Coordinator

Glenn Puffer, MSU-Bozeman, Student Affairs

Buck Taylor, Gallatin Community Clinic, Director

Jason Shrauger, Bozeman Fire Department, Gallatin County Emergency Management

Kent Atwood, State of Montana – DES

Larry Akers, Contractor

Daphne Digrindakis, Contractor

Mary Bell, Contractor

HAZARDS AFFECTING DISTRICT 3

Meeting Discussion on Hazards Affecting District 3

Possible addition of Communicable Disease hazard. This hazard could cover bioterrorism and biological disasters (instead of bioterrorism) because it's very broad. It was noted that the 10 hazards discussed have an economic impact and communicable disease should definitely be on the hazard list. Participants also discussed communicable disease's economic impact on livestock and agriculture.

Possible addition of IT Infrastructure hazard. This includes telecommunications, waste water systems, etc.; all of these are supported by a system. Ignoring steps needed to prevent failure of major IT infrastructure increases risk. The economic impact of connectivity loss due to long term power outages must be considered. Dick Clark, State CIO State Network, should be contacted for a better representation and further discussion of the actual risk involved in the failure of a major section of the IT infrastructure. Discussion considered if local systems were robust enough to support systems if information trunks were not prepared for disaster and failed. Weak lines in cities should be addressed and opportunities for mitigation should be examined. Participants asked what they could do to strengthen the IT infrastructure. For example, if an IT trunk was located within a floodplain, a project could be implemented to reduce risk. It was also noted that State run data networks are generally located in the same physical area (such as I-90) and there is a need to implement more redundancy centers to maintain systems in case of disaster.

Participants felt that all hazards covered in local and university plans should be covered in the State plan. The addition of a Communicable Disease and IT Infrastructure hazard would mitigate potential loss of life and property and reduce community impact.

ASSESSMENT OF HAZARDS – DISTRICT 3

Drought

Lewis & Clark - Low
Jefferson – Not Assessed
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – High
Madison – Not Assessed
Gallatin – High
Park – High
Sweetgrass – Low

Earthquake

Lewis & Clark - Medium
Jefferson – High
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – High
Madison – Medium
Gallatin – High
Park – Medium
Sweetgrass – Low

Participants inquired why the Earthquake risk rating wasn't high for all of District 3.

Flood

Lewis & Clark - High
Jefferson – High
Broadwater – Low
Meagher – No Approved Plan
Beaverhead – High
Madison – Medium
Gallatin – Medium
Park – High
Sweetgrass – Medium

Participants agreed that the medium risk rating for flood in Gallatin County is very accurate. It was noted that there has been no building within the 100 year floodplain which helps reduce the overall risk.

Hazardous Material Incident

Lewis & Clark - Low
Jefferson – High
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – Medium
Madison – Medium
Gallatin – High
Park – High
Sweetgrass – Medium

It was noted that Gallatin County is at higher risk for a hazardous material incident because of the railroad and university research.

Landslide

Lewis & Clark - Low
Jefferson – Not Assessed
Broadwater – Low
Meagher – No Approved Plan
Beaverhead – Not Assessed
Madison – Not Assessed
Gallatin – Medium
Park – Medium
Sweetgrass – Low

Severe Thunderstorm, Hail, Wind and Tornadoes

Lewis & Clark - Medium
Jefferson – Not Assessed
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – High
Madison – Not Assessed
Gallatin – Medium
Park – Medium
Sweetgrass – High

Discussion questioned Park County rating as this county has some of the state's highest wind speeds on record.

It was also suggested that this hazard be split into a Wind/Tornado hazard and a Thunderstorm hazard.

Terrorism and Violence

Lewis & Clark – Not Assessed
Jefferson – Not Assessed
Broadwater – Low
Meagher – No Approved Plan

Beaverhead – Low
Madison – Low
Gallatin – Low
Park – Low
Sweetgrass – Low

Discussion noted that the University is a target for terrorism and violence due to the types of genetic research conducted. The Department of Homeland Security ranks Gallatin County as second in the state at risk for this hazard. Locally, Gallatin County is at a relatively low risk but when weighted against the rest of the state, terrorism is high because of the research conducted at the University.

Participants felt that Terrorism and Violence ranking should come from the State Annex.

Volcanic Eruption

Lewis & Clark – Not Assessed
Jefferson – Not Assessed
Broadwater – Low
Meagher – No Approved Plan
Beaverhead – Not Assessed
Madison – Not Assessed
Gallatin – Low
Park – Low
Sweetgrass – Low

Wildfire

Lewis & Clark - High
Jefferson – High
Broadwater – High
Meagher – No Approved Plan
Beaverhead – High
Madison – High
Gallatin – High
Park – High
Sweetgrass – High

Winterstorm

Lewis & Clark - Low
Jefferson – Not Assessed
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – High
Madison – Not Assessed
Gallatin – Medium
Park – Medium
Sweetgrass – Low

Participants felt that the medium risk rating for Gallatin County is accurate.

ASSESSMENT OF STATE GOALS – DISTRICT 3

Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.

Goal 2: Increase State’s capability to provide mitigation opportunities.

Goal 3: Mitigate the potential loss of life and property from flooding.

Discussion noted that the Hyalite Dam project is missing from list of flood mitigation projects.

Goal 4: Reduce the community impacts of wildland and rangeland fires.

Suggestions for regional and district wide project included wildfire and IT infrastructure projects.

Goal 5: Reduce potential earthquake losses in Western Montana.

It was noted that the University needs to apply to FEMA for funding to retrofit buildings for earthquake mitigation.

Goal 6: Minimize economic impacts of drought.

Goal 7: Reduce impacts from severe winter weather.

Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.

OTHER COMMENTS

Education is on-going in Gallatin County. At this time, there are no active mitigation projects completed or outdated. All projects are valid at this time.

Participants suggested that for future meetings, invitations and the responsibilities of the host need to be clearer. It was suggested that the University could provide a video conference to notify other universities of upcoming meetings and encourage them to attend. The University could also e-mail the entire university system.

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Monday, March 12, 2007

Time: 11:55 am – 2:00 pm

Place: Dillon, Montana

Meeting Attendance:

Julie Johnson, State of Montana - Montana Heritage Commission

Jim Carpita, State of Montana - Montana Heritage Commission

Archie Matthews, Grasshopper VFD

Scott Marsh, Beaverhead County

Frank Mastaudrea, Beaverhead County

Larry Laknar, Beaverhead County DES

Tom Rice, Beaverhead County Commission

Garth Haugund, Beaverhead County Commission

Marty Malesich, Mayor of Dillon

JS Turner, City of Dillon - Director of Operations

Kent Atwood, State of Montana – DES

Larry Akers, Contractor

Daphne Digrindakis, Contractor

HAZARDS AFFECTING DISTRICT 3

Meeting Discussion on Hazards Affecting District 3

Possible addition of Pine Beetle Infestation hazard which adds to deadwood and fire fuel loading.

Possible addition of Brucellosis hazard which is a concern to local ranchers who suspect bison and elk may be carrying the disease. If a brucellosis outbreak occurred, the economic impact to ranching would be great. Brucellosis is on Beaverhead County's hazard watchlist.

Possible addition of Pandemic Disease hazard that would include shelters and quarantine options.

ASSESSMENT OF HAZARDS – DISTRICT 3

Drought

Lewis & Clark – Low

Jefferson – Not Assessed

Broadwater – Medium

Meagher – No Approved Plan

Beaverhead – High

Madison – Not Assessed

Gallatin – High
Park – High
Sweetgrass – Low

Beaverhead County is rated high for drought hazard. Madison County participants noted that land on the west side is quickly being developed with suburbs and homes. These structures may pose a fire risk. Drought conditions on the Ruby Range side are still a concern.

Earthquake

Lewis & Clark – Medium
Jefferson – High
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – High
Madison – Change Medium to High
Gallatin – High
Park – Medium
Sweetgrass – Low

Beaverhead County still felt they are at high risk for earthquakes. Madison County participants felt that their risk for earthquakes should be upgraded to high.

Flood

Lewis & Clark – High
Jefferson – High
Broadwater – Low
Meagher – No Approved Plan
Beaverhead – High
Madison – Change Medium to High
Gallatin – Medium
Park – High
Sweetgrass – Medium

Beaverhead County still felt they are at high risk for floods. Madison County participants felt that their risk for flood should be upgraded to high.

Hazardous Material Incident

Lewis & Clark – Low
Jefferson – High
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – Medium
Madison – Medium
Gallatin – High

Park – High
Sweetgrass – Medium

Both Beaverhead and Madison counties agreed that their Hazardous Material Incident rating should remain at medium.

Landslide

Lewis & Clark – Low
Jefferson – Not Assessed
Broadwater – Low
Meagher – No Approved Plan
Beaverhead – Not Assessed
Madison – Not Assessed
Gallatin – Medium
Park – Medium
Sweetgrass – Low

Beaverhead and Madison counties noted that landslides are not considered a hazard.

Severe Thunderstorm, Hail, Wind and Tornadoes

Lewis & Clark – Medium
Jefferson – Not Assessed
Broadwater – Medium
Meagher – No Approved Plan
Beaverhead – High
Madison – Change from Not Assessed to High
Gallatin – Medium
Park – Medium
Sweetgrass – High

Madison County participants noted that the Ennis and Norris areas are very windy and this hazard should be upgraded to high.

Terrorism and Violence

Lewis & Clark – Not Assessed
Jefferson – Not Assessed
Broadwater – Low
Meagher – No Approved Plan
Beaverhead – Low
Madison – Low
Gallatin – Low
Park – Low
Sweetgrass – Low

Beaverhead and Madison counties did not suggest any change to their low risk rating for terrorism and violence but speculated that major ski areas or high value homes may be targets for terrorism.

Volcanic Eruption

Lewis & Clark – Not Assessed

Jefferson – Not Assessed

Broadwater – Low

Meagher – No Approved Plan

Beaverhead – Change from Not Assessed to Low

Madison – Not Assessed

Gallatin – Low

Park – Low

Sweetgrass – Low

Beaverhead County participants noted that ashfall from Mt. St. Helens is discussed in their plan and suggested the risk be changed from not assessed to low. Additionally, they noted that the County has a warning system in place and that trying to mitigate an eruption from Yellowstone would not be worth the effort as such an eruption would be catastrophic.

Wildfire

Lewis & Clark – High

Jefferson – High

Broadwater – High

Meagher – No Approved Plan

Beaverhead – High

Madison – High

Gallatin – High

Park – High

Sweetgrass – High

Both counties noted that the wildfire hazard is still very high in District 3 and changes in risk were not necessary.

Winterstorm

Lewis & Clark –Low

Jefferson – Not Assessed

Broadwater – Medium

Meagher – No Approved Plan

Beaverhead – High

Madison – Change from Not Assessed to High

Gallatin –Medium

Park – Medium

Sweetgrass – Low

Beaverhead County did not require any changes in their high risk rating for winterstorms. Madison County noted that winterstorms cause a lot of traffic accidents and requested their risk be upgraded to medium or high.

ASSESSMENT OF STATE GOALS – DISTRICT 3

Goal 1: Maximize the use of mitigation actions that prevent losses from all hazards.

Beaverhead and Madison counties felt that Goal 1 and Goal 2 are too generic and more appropriate as part of a mission statement or objectives in each goal.

Goal 2: Increase State's capability to provide mitigation opportunities.

Beaverhead and Madison counties felt a state legislator should propose a bill to start a State Mitigation plan that is funded with \$250,000 every year to help smaller Montana communities afford matching funds for PDMC projects.

Another objective was suggested that concerned the natural mosaic or forest health.

Goal 3: Mitigate the potential loss of life and property from flooding.

Beaverhead County has current ongoing flood mitigation projects.

Goal 4: Reduce the community impacts of wildland and rangeland fires.

Beaverhead County has five valid wildfire projects.

Madison County has no wildfire projects.

Goal 5: Reduce potential earthquake losses in Western Montana.

Beaverhead County is expecting seismic assessment from Western University. They also anticipate projects from some of the local schools.

Madison County still has many high priority seismic projects. They also suggested that historic structures be identified and protected in County and/or State plans.

Goal 6: Minimize economic impacts of drought.

Beaverhead County has three drought projects. They acknowledge that economically drought is the worst hazard the County faces but finds it hard to mitigate except through public education and awareness.

Goal 7: Reduce impacts from severe winter weather.

Beaverhead County has one mitigation project that concerns the installation of an automated weather site in Wisdom.

Goal 8: Encourage mitigation of potentially devastating but historically less frequent hazards.

Beaverhead and Madison counties felt that this goal needs to be split out and should also include Hazardous Material Incidents and severe summer weather (thunderstorms, hail, wind and tornadoes).

The counties suggested the combination of severe winter and summer events. However, it was discussed that FEMA wants to keep winter and summer storms as separate hazards.

OTHER COMMENTS

Participants noted that the State Plan should present a risk assessment formula for each hazard that can be used by local jurisdictions. Risk can then be compared in a similar fashion.

Beaverhead and Madison counties suggested the addition of an objective to Annex of the State EOP and Terrorism & Homeland Security Annex that addresses hazardous materials incidents and their consequences. An objective or goal should be added to the State Plan that references these annexes. Additionally, the EOC Terrorism/Security Annex Mitigation actions should be included in the State Mitigation Plan.

It was also suggested that FEMA and the Dept. of Homeland Security need to unify grants to reflect the cause and effect for Terrorism and Violence and mitigation responses. The agencies also need to simplify requirements on local jurisdictions to integrate the PDM into other plans.

On the State level, it was suggested that plan requirements be unified into one document to minimize burden on local jurisdictions across the state.

Beaverhead and Madison counties were urged to think about applying for a PDMC planning grant for next year since their PDM plan 5 year update is due October 2009.

**UPDATE TO THE STATE OF MONTANA PDM
PLAN AND HAZARD ASSESSMENT
PUBLIC MEETING MINUTES**

Date: Friday, April 20, 2007

Time: 1:30 pm – 3:30 pm

Place: Helena, Montana

Meeting Attendance:

Valentine D. Sworts, Lewis and Clark County Health Dept./County Preparedness Plan
Jim Murphy, Montana State Health Department
Alan Stine, Haz-Mat Contractor, Olympus Technical Services
Brett Friede, Lewis and Clark County Sheriff's Office
Lou Antonick, State of Montana, Dept. Admin. Emergency Management Specialist
Jeff Adams, Montana Rail Link
Clint Loobey, Yellowstone Pipeline Company
Cindy Bender, Lewis and Clark County American Red Cross
Rocky Infanger, City of Wolf Creek Fire Dept.
Kevin Skaalure, KMTX Radio/LEPC member
Randy Lilje, City of Helena Parks Dept.
Eric Spangenberg, City of Helena GIS
Paul Spengler, Lewis and Clark County DES Coordinator
Pat McKelvey, Lewis and Clark County Deputy DES Coordinator
Nan Johnson, FEMA Region 8
Sharon Hagen, City of Helena Community Development Director
Brandt Salo, City of Helena Building Dept.
Beth Norberg, Lewis and Clark County Health Dept.
Frank Presker, Lewis and Clark County Health Dept.
Kelly Blake, Lewis and Clark County Planning Dept.
Paul Putz, City of Helena-Lewis and Clark County Historic Preservation
Brian LaMoure, County DES/DPHHS
Sunny Stiger, Lewis and Clark County Rural Fire
Sandra Hare, Lewis and Clark County DES
Dave Jeseritz, Lewis and Clark County 911 Administrator
Mark Lerum, City of Helena Police Dept.
Michael McHugh, City of Helena Planning Dept.
Jim Wilbur, Lewis and Clark County Water Quality Protection District
F. Patrick Crowley, State of Montana Dept. Environmental Quality Solid Waste Program
Mickey Nelson, Lewis and Clark County Coroner
Kent Atwood, State of Montana – DES
Larry Akers, Contractor
Daphne Digrindakis, Contractor

HAZARDS AFFECTING LEWIS AND CLARK COUNTY

Pandemic catastrophic disease was discussed. It was suggested that a Public Health message be broadcast everyday to mitigate this hazard. The message would urge people to frequently wash their hands, stay home if sick, etc.

Dept. of Livestock has also developed plans to deal with livestock diseases. There is an Agriculture Emergency Preparedness Committee. Agriculture is Montana's primary business and many diseases are zoonotic, transmissible from animals to humans. Naturally occurring diseases (e.g., anthrax) also pose a threat; this could be natural or introduced through bio-terrorism.

Another possible threat to Montanans is non-resident developers and landowners who are ignorant about wildfire and flood hazards. It was suggested that the updated State Plan should emphasize outreach and education.

Participants discussed the difference between mitigation, preparedness and education. It was concluded the county needs to start thinking about long term mitigation.

The Internet and continuity of operations was also discussed.

A major earthquake in Helena would require long-term recovery. It was noted that more long-term seismic mitigation projects need to be done as very little has been done to date.

Participants were asked which of the ten hazards are considered to be top priorities:

1. Wildfire
2. Earthquake
3. Hazardous Material Incident
4. Flooding

ASSESSMENT OF HAZARDS

Drought

Lewis and Clark County was rated as low risk because the authors of the local plan decided to concentrate on the three or four major risks to the county population. The agricultural community in Lewis and Clark County would disagree that drought is high. Drought is tough to mitigate. It is also an integral part of wildfire and should be tied to this hazard in some way. Lewis and Clark County should be upgraded to medium risk for purposes of the State Plan Update.

Earthquake

Lewis and Clark County is rated as medium risk for earthquakes. The probability is low but the impact is high. The local plan authors judged it medium risk due to the low probability. The risk to the Helena area is much higher than Augusta. Participants asked if critical facilities (state facilities, refineries, pipelines, etc.) factor into the hazard ratings. Due to the nature of the multi-jurisdictional plan, the answer was yes and no. Participants agreed that Lewis and Clark County should be upgraded to high risk for this hazard. Even though the probability is low, a 10% chance of getting a large earthquake is

still a catastrophic event. Seismic activity can be mitigated and work needs to be done immediately. The Helena School District should apply to the PDMC program for seismic mitigation projects. Participants felt that the entire seismic zone in the state should be upgraded to high risk.

Flooding

Lewis and Clark County is rated as high risk for flooding. The participants did not request any changes to this rating but suggested the consideration of flooding at superfund sites.

Hazardous Material Incident

The County is rated as low risk for this hazard. Participants were concerned about superfund sites and wondered if they are factored into risk. Flooding in the upper Ten Mile Creek area would impact arsenic piles and old mining piles. Prickly Pear Creek runs through Asarco. Concern was also expressed over the number of trains carrying hazardous materials that pass through Helena everyday. Participants agreed that risk for Lewis and Clark County should be upgraded to high considering transportation corridors, superfund sites, Fort Harrison munitions, etc. It was wondered if response teams affect the ranking of a hazard; they do not affect the risk rating.

Landslide

Lewis and Clark County is rated as low risk for landslides. A point of concern is the Wolf Creek area. If an earthquake hit this area, residents would be cut off from transportation routes and emergency services.

Severe Thunderstorm, Hail, Wind and Tornado

The County has a medium risk rating for this hazard. Participants did not suggest any changes.

Terrorism and Violence

This hazard was not assessed by Lewis and Clark County. Participants discussed the fact that today is the anniversary of the Columbine shootings and suggested the rating be upgraded to medium risk.

Volcanic Eruption

Lewis and Clark County did not assess this hazard because the risk and probability are low. Participants noted that a Yellowstone caldera event would heavily impact the County and the Mt. St. Helen's ashfall was mostly a nuisance versus a hazard. It was noted that the volcanic eruption hazard is addressed in Lewis and Clark's Emergency Operations Plan. Participants felt this hazard should be upgraded to low risk.

Wildfire

Participants noted that the state needs to address this hazard as a high fuels hazard. It is important to get federal partners to address this as a very high mitigation need. Global warming is going to worsen drought and develop longer fire seasons. Fire risk increases with people building homes in the WUI. Montana Senate Bill #51 addressed building in

the WUI and mitigation to zone or pay. However, counties objected to this as an unfunded mandate. The state may withhold grants from counties unless they get more proactive (e.g., zoning, 2-ways out and no cedar roofs). Federal partners (Forest Service, the BLM and the National Park Service) need to do more mitigation and the State Plan should emphasize this as a mitigation strategy.

It was also suggested that High Fuel be added to the hazards list and that a statewide fuels map be included in the State Plan Update.

Future development mitigation is a component of the State PDM Plan; participants wondered if this could be tied to High Fuel hazard and mitigation. Forest Health and Fuel Mitigation is already an integral part of the Climate Change Advisory Council's recommendations to the Governor. These recommendations need to be integrated into the State Plan.

Winterstorm

This hazard is rated as low risk since winterstorms haven't been a major problem.

DISCUSSION OF MITIGATION PROJECTS

The South Hills Fuel Mitigation PDMC 2007 project has been submitted. Priest Past and Ten Mile Watershed fuel reduction project is in progress. A potential PDMC project concerns the wooden water flume to Ten Mile treatment plant.

Helena School District will be applying for a PDMC seismic project. It was questioned if any other state facilities or structures in the county needed to be mitigated. It was noted that Carroll College sits on a fault zone; however, the college is private.

The topic of flooding projects was discussed and it was noted that the bridge at Kerr Drive has been completed.

The condition of the State Capitol was also discussed; issues that need to be addressed include squirrel mitigation and critical infrastructure. Participants asked if a Tier 1 seismic survey has been completed for the Capitol. It was noted that the survey has not been completed to date. FEMA will not pay for this survey; however, it needs to be done prior to applying for any seismic projects.

Participants wondered when the City of Helena/Lewis and Clark County adopted seismic building codes. It was noted that this was done in the 1970s. Better codes developed over time so there is some variation. Participants also questioned if the city/county has done any seismic retrofits. Some have been done at the city shop area. Participants wondered about work durability. If work was completed over 10 years ago, does it need to be redone?

Discussion returned to the topic of flooding and questioned if the state needed to do any projects. It was noted that the river setback bill (250 ft from major rivers) was defeated

in the current state legislature. It is the counties responsibility to enact setback ordinances. It was suggested that the State needs to do land use plans. Lewis and Clark County has them to protect people. The State needs to have this as a goal or objective in the State Plan Update.

It was observed that the State currently does not prohibit building on a known fault zone. No development permits are required. It was wondered if Montana needs state building codes. Perhaps this could be a goal or objective in the State Plan Update. Additionally, active faults across the state need to be mapped (they are in Lewis and Clark County).

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MTIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

On-Line Survey Results

What jurisdiction type do you represent?			
		Response Percent	Response Count
Federal	<div><div></div></div>	7.8%	4
State	<div><div></div></div>	19.6%	10
County	<div><div></div></div>	41.2%	21
Tribal		0.0%	0
Public Utility	<div><div></div></div>	3.9%	2
General Public	<div><div></div></div>	9.8%	5
Other (please specify)	<div><div></div></div>	25.5%	13
		answered question	51
		skipped question	1

What County/Tribal Community do you represent or as a private citizen where do you live?			
		Response Percent	Response Count
Blackfeet		0.0%	0
Crow		0.0%	0
Flathead		0.0%	0
Fort Belknap		0.0%	0
Fort Peck		0.0%	0
Northern Cheyenne		0.0%	0
Rocky Boy's		0.0%	0
Beaverhead		0.0%	0
Big Horn		0.0%	0
Blaine		0.0%	0
Broadwater	<div><div></div></div>	1.9%	1
Carbon		0.0%	0
Carter		0.0%	0
Cascade		0.0%	0
Chouteau		0.0%	0

Custer		0.0%	0
Daniels		0.0%	0
Dawson		0.0%	0
Deer Lodge		0.0%	0
Fallon		0.0%	0
Fergus		0.0%	0
Flathead		0.0%	0
Gallatin	<div></div>	3.9%	2
Garfield		0.0%	0
Glacier		0.0%	0
Golden Valley		0.0%	0
Granite		0.0%	0
Hill		0.0%	0
Jefferson	<div></div>	5.8%	3
Judith Basin		0.0%	0
Lake		0.0%	0
Lewis And Clark	<div></div>	80.8%	42
Liberty		0.0%	0
Lincoln		0.0%	0
Madison	<div></div>	5.8%	3
McCone		0.0%	0
Meagher		0.0%	0
Mineral		0.0%	0
Missoula		0.0%	0
Musselshell		0.0%	0
Park	<div></div>	1.9%	1
Petroleum		0.0%	0
Phillips		0.0%	0
Pondera		0.0%	0
Powder River		0.0%	0
Powell		0.0%	0

Prairie		0.0%	0
Ravalli		0.0%	0
Richland		0.0%	0
Roosevelt		0.0%	0
Rosebud		0.0%	0
Sanders		0.0%	0
Sheridan		0.0%	0
Silver Bow		0.0%	0
Stillwater		0.0%	0
Sweet Grass		0.0%	0
Teton		0.0%	0
Toole		0.0%	0
Treasure		0.0%	0
Valley		0.0%	0
Wheatland		0.0%	0
Wibaux		0.0%	0
Yellowstone		0.0%	0
Other		0.0%	0
	answered question		52
	skipped question		0

Have you seen or read the State of Montana Multi-Hazard Mitigation Plan and Statewide Hazard Assessment.			
		Response Percent	Response Count
Yes	<div></div>	63.5%	33
No	<div></div>	36.5%	19
	answered question		52
	skipped question		0

How would you rate the overall quality and content of the plan.			
		Response Percent	Response Count
1 - Poor	<div></div>	0.0%	0
2	<div></div>	0.0%	0
3 - Average	<div></div>	34.5%	10
4	<div></div>	55.2%	16
5 - Excellent	<div></div>	17.2%	5
		answered question	29
		skipped question	23

Do you feel the plan accurately portrays natural and man-made hazards in Montana?			
		Response Percent	Response Count
Yes	<div></div>	100.0%	29
No	<div></div>	6.9%	2
		answered question	29
		skipped question	23

What improvements do you think could be made to the plan?		
		Response Count
		9
		answered question
		9
		skipped question
		43

From the perspective of the jurisdiction that you represent or permanently reside in, how do you perceive the risk to each of the following hazards: Risk is defined as the potential to affect people, environment, economy and property of your jurisdiction. High/Medium/Low for:					
	High	Medium	Low	Rating Average	Response Count
Communicable Disease	15.4% (6)	35.9% (14)	48.7% (19)	2.33	39
Drought	48.7% (19)	38.5% (15)	12.8% (5)	1.64	39
Earthquake	78.9% (30)	21.1% (8)	0.0% (0)	1.21	38
Flooding/Dam Failure	38.5% (15)	46.2% (18)	15.4% (6)	1.77	39
Hazardous Material Incidents	35.9% (14)	51.3% (20)	12.8% (5)	1.77	39
Landslide	2.6% (1)	33.3% (13)	64.1% (25)	2.62	39
Terrorism/Violence	10.8% (4)	24.3% (9)	64.9% (24)	2.54	37
Thunderstorm Wind, Hail, and Tornadoes	46.2% (18)	48.7% (19)	5.1% (2)	1.59	39
Volcanic Eruption	0.0% (0)	18.4% (7)	81.6% (31)	2.82	38
Wildfire	89.7% (35)	7.7% (3)	2.6% (1)	1.13	39
Winter Storms/Avalanche	36.8% (14)	55.3% (21)	7.9% (3)	1.71	38
	answered question				39
	skipped question				13

Please comment on the impact that future development will have on the hazards listed from the perspective of your jurisdiction.			
		Response Percent	Response Count
Communicable Disease	<div></div>	75.0%	18
Drought	<div></div>	75.0%	18
Earthquake	<div></div>	91.7%	22
Flooding/Dam Failure	<div></div>	75.0%	18
Hazardous Material Incidents	<div></div>	75.0%	18
Landslide	<div></div>	58.3%	14
Terrorism/Violence	<div></div>	66.7%	16
Thunderstorm Wind, Hail, and Tornadoes	<div></div>	70.8%	17
Volcanic Eruption	<div></div>	58.3%	14
Wildfire	<div></div>	91.7%	22
Winter Storms/Avalanche	<div></div>	62.5%	15
	answered question		24
	skipped question		28

Please prioritize the following proposed NEW goals for the State Plan Update by order of importance from the perspective of your jurisdiction (1=highest / 10=lowest):											
	High				Medium					Low	Rating Average
Maximize the Use of Mitigation Actions that Prevent Losses from All Hazards	43.8% (14)	18.8% (6)	12.5% (4)	12.5% (4)	6.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	6.3% (2)	0.0% (0)	2.56
Increase State’s Capability to Provide and Assist Locals with Mitigation Opportunities	37.5% (12)	25.0% (8)	18.8% (6)	6.3% (2)	6.3% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.1% (1)	3.1% (1)	2.59
Reduce the Community Impacts of Wildland and Rangeland Fires	56.3% (18)	18.8% (6)	21.9% (7)	0.0% (0)	3.1% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.75
Mitigate the Potential Loss of Life and Property from Flooding (riverine flooding, ice jams, dam failure)	25.0% (8)	6.3% (2)	21.9% (7)	12.5% (4)	15.6% (5)	12.5% (4)	0.0% (0)	3.1% (1)	3.1% (1)	0.0% (0)	3.59
Minimize Economic Impacts of Drought	15.6% (5)	9.4% (3)	21.9% (7)	6.3% (2)	28.1% (9)	0.0% (0)	9.4% (3)	6.3% (2)	3.1% (1)	0.0% (0)	4.09
Reduce Impacts from Severe Summer Weather (thunderstorm wind, hail, tornadoes)	9.4% (3)	3.1% (1)	18.8% (6)	6.3% (2)	34.4% (11)	3.1% (1)	12.5% (4)	6.3% (2)	6.3% (2)	0.0% (0)	4.81
Reduce Impacts from Severe Winter Weather (extreme cold, snow, ice)	9.4% (3)	6.3% (2)	25.0% (8)	12.5% (4)	28.1% (9)	3.1% (1)	6.3% (2)	3.1% (1)	3.1% (1)	3.1% (1)	4.34
Reduce Potential Earthquake Losses in Western Montana	31.3% (10)	25.0% (8)	25.0% (8)	6.3% (2)	12.5% (4)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.44
Reduce Losses from Hazardous Material Incidents	9.4% (3)	25.0% (8)	12.5% (4)	21.9% (7)	15.6% (5)	6.3% (2)	0.0% (0)	0.0% (0)	6.3% (2)	3.1% (1)	3.88
Encourage Mitigation of Potentially Devastating but Historically Less Frequent Hazards	6.3% (2)	6.3% (2)	21.9% (7)	9.4% (3)	37.5% (12)	0.0% (0)	3.1% (1)	3.1% (1)	3.1% (1)	9.4% (3)	4.78
	answered question										
	skipped question										

Please indicate any additional Goals you think should be added to the State Plan.	
	Response Count
	6
	answered question 6
	skipped question 46

Goal: Maximize the use of mitigation actions that prevent losses from all hazards.												
	High				Medium					Low	Rating Average	
Develop GIS databases of hazard risk maps and state buildings and infrastructure to use in mitigation planning	31.0% (9)	24.1% (7)	20.7% (6)	6.9% (2)	3.4% (1)	0.0% (0)	6.9% (2)	3.4% (1)	3.4% (1)	0.0% (0)	2.93	
Conduct Level 1 HAZUS-MH analyses for all Montana counties	13.8% (4)	17.2% (5)	27.6% (8)	10.3% (3)	24.1% (7)	0.0% (0)	6.9% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.41	
Improve Statewide HAZUS data	13.8% (4)	24.1% (7)	31.0% (9)	3.4% (1)	20.7% (6)	6.9% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.14	
Determine GPS locations of all State buildings for detailed, non-public analysis	14.3% (4)	14.3% (4)	21.4% (6)	7.1% (2)	28.6% (8)	0.0% (0)	7.1% (2)	3.6% (1)	3.6% (1)	0.0% (0)	3.89	
Conduct a non-public hazard assessment that utilizes specific State building locations and infrastructure locations to be used for mitigation actions and homeland security purposes	13.8% (4)	10.3% (3)	10.3% (3)	13.8% (4)	24.1% (7)	17.2% (5)	0.0% (0)	3.4% (1)	3.4% (1)	3.4% (1)	4.38	
Promote earth science education of hazards in schools	10.7% (3)	10.7% (3)	25.0% (7)	25.0% (7)	17.9% (5)	0.0% (0)	3.6% (1)	0.0% (0)	0.0% (0)	7.1% (2)	3.93	
Conduct a Statewide warning capability assessment	27.6% (8)	20.7% (6)	27.6% (8)	6.9% (2)	13.8% (4)	3.4% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.69	
Develop a Statewide All-Hazard Emergency Alert System (EAS) plan	34.5% (10)	17.2% (5)	31.0% (9)	3.4% (1)	10.3% (3)	3.4% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.48	
Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.	10.3% (3)	34.5% (10)	31.0% (9)	13.8% (4)	10.3% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.79	
Increase the public awareness of hazards	28.6% (8)	28.6% (8)	25.0% (7)	10.7% (3)	3.6% (1)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.43	
Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is	37.9% (11)	20.7% (6)	10.3% (3)	10.3% (3)	17.2% (5)	3.4% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.59	
Increase readiness for the protection of life and property during an event	48.3% (14)	17.2% (5)	10.3% (3)	17.2% (5)	3.4% (1)	3.4% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.21	
	answered question											

	skipped question	
Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		7
	answered question	7
	skipped question	45

Goal: Increase State’s capability to provide and assist locals with mitigation opportunities.												
	High				Medium					Low	Rating Average	
Continue outreach of mitigation project funding opportunities	35.7% (10)	17.9% (5)	17.9% (5)	14.3% (4)	10.7% (3)	0.0% (0)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	2.68	
Provide technical assistance with the environmental review process	17.9% (5)	21.4% (6)	17.9% (5)	21.4% (6)	17.9% (5)	0.0% (0)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	3.21	
Provide technical assistance for project development	21.4% (6)	17.9% (5)	17.9% (5)	21.4% (6)	21.4% (6)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.04	
Create an electronic database of completed mitigation projects in Montana	17.9% (5)	14.3% (4)	21.4% (6)	7.1% (2)	21.4% (6)	10.7% (3)	0.0% (0)	0.0% (0)	3.6% (1)	3.6% (1)	3.79	
Increase the scope and participation of the State Hazard Mitigation Team	18.5% (5)	14.8% (4)	14.8% (4)	14.8% (4)	18.5% (5)	7.4% (2)	3.7% (1)	0.0% (0)	7.4% (2)	0.0% (0)	3.81	
Create a private advisory group for mitigation	14.3% (4)	14.3% (4)	21.4% (6)	3.6% (1)	14.3% (4)	7.1% (2)	7.1% (2)	7.1% (2)	3.6% (1)	7.1% (2)	4.46	
Streamline mitigation standards in state and/or local subdivision regulations	29.6% (8)	11.1% (3)	14.8% (4)	11.1% (3)	18.5% (5)	7.4% (2)	3.7% (1)	0.0% (0)	3.7% (1)	0.0% (0)	3.37	
Strengthen state and/or local building codes	35.7% (10)	28.6% (8)	10.7% (3)	7.1% (2)	7.1% (2)	0.0% (0)	0.0% (0)	7.1% (2)	3.6% (1)	0.0% (0)	2.79	
Require growth policies consider natural and man-made hazard	46.4% (13)	25.0% (7)	14.3% (4)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	7.1% (2)	0.0% (0)	0.0% (0)	2.25	
Create a state funded grant program to assist with the 25% match for local governments	50.0% (14)	10.7% (3)	10.7% (3)	7.1% (2)	7.1% (2)	3.6% (1)	3.6% (1)	0.0% (0)	7.1% (2)	0.0% (0)	2.79	
Coordinate local plan development	25.0% (7)	28.6% (8)	10.7% (3)	14.3% (4)	14.3% (4)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.6% (1)	3.00	
Provide technical assistance with												

hazard mapping for rural communities without GIS capabilities	32.1% (9)	17.9% (5)	28.6% (8)	10.7% (3)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	2.64	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											4
	answered question										4
	skipped question										48

Goal: Mitigate the potential loss of life and property from flooding.												
	High				Medium					Low	Rating Average	
Develop and improve upon model floodplain ordinances for local governments	32.1% (9)	17.9% (5)	17.9% (5)	14.3% (4)	17.9% (5)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.68	
Develop mapping for unmapped flood prone areas	28.6% (8)	28.6% (8)	17.9% (5)	10.7% (3)	3.6% (1)	10.7% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.64	
Update floodplain mapping of mapped areas	32.1% (9)	25.0% (7)	17.9% (5)	10.7% (3)	7.1% (2)	3.6% (1)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	2.68	
Establish a schedule for NFIP map reviews and updates	32.1% (9)	10.7% (3)	25.0% (7)	10.7% (3)	14.3% (4)	3.6% (1)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.89	
Provide outreach and technical assistance in joining the NFIP Community Rating System for reducing flood insurance premiums	15.4% (4)	15.4% (4)	34.6% (9)	11.5% (3)	19.2% (5)	0.0% (0)	0.0% (0)	3.8% (1)	0.0% (0)	0.0% (0)	3.23	
Increase the public awareness of flood mitigation	35.7% (10)	28.6% (8)	14.3% (4)	21.4% (6)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.21	
Reduce the number of current and future structures in the floodplain	44.4% (12)	22.2% (6)	25.9% (7)	3.7% (1)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.00	
Prevent flooding of structures and infrastructure from inadequate storm drainage and poorly designed irrigation waterways	29.6% (8)	22.2% (6)	25.9% (7)	7.4% (2)	11.1% (3)	0.0% (0)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.63	
Provide adequate warning of flooding events	46.4% (13)	28.6% (8)	10.7% (3)	10.7% (3)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.96	

	<i>answered question</i>	
	<i>skipped question</i>	

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
	Response Count	
	3	
	<i>answered question</i>	3
	<i>skipped question</i>	49

Goal: Reduce the community impacts of wildland and rangeland fires.												
	High				Medium					Low	Rating Average	F
Reduce fuels in the wildland urban interface	78.6% (22)	7.1% (2)	10.7% (3)	0.0% (0)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.43	
Reduce hazardous fuels in rangeland areas	39.3% (11)	28.6% (8)	7.1% (2)	14.3% (4)	7.1% (2)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.32	
Accurately assess and address the current wildland urban interface problems at the subdivision level	71.4% (20)	10.7% (3)	14.3% (4)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.57	
Enhance firefighting resources and improve firefighting capabilities	51.9% (14)	14.8% (4)	25.9% (7)	7.4% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.89	
Enhance community awareness of wildfires through education	53.6% (15)	17.9% (5)	14.3% (4)	7.1% (2)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.96	
Enhance effectiveness of response and evacuation	46.4% (13)	17.9% (5)	17.9% (5)	10.7% (3)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.14	
Establish mapping or record keeping practices to support fuel management strategies	46.4% (13)	7.1% (2)	21.4% (6)	10.7% (3)	14.3% (4)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.39	
Minimize human-caused ignition sources in fire-prone areas	55.6% (15)	22.2% (6)	14.8% (4)	7.4% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.74	
Centralize fire history documentation	29.6% (8)	7.4% (2)	22.2% (6)	14.8% (4)	18.5% (5)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.7% (1)	3.22	
Develop a consistent Statewide fire risk assessment system	35.7% (10)	28.6% (8)	14.3% (4)	14.3% (4)	3.6% (1)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.32	
Encourage sustainable growth in wildland fire hazard areas	32.1% (9)	17.9% (5)	14.3% (4)	10.7% (3)	7.1% (2)	3.6% (1)	0.0% (0)	3.6% (1)	0.0% (0)	10.7% (3)	3.46	

	<i>answered question</i>	
	<i>skipped question</i>	

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
	Response Count	
	6	
	<i>answered question</i>	6
	<i>skipped question</i>	46

Goal: Reduce potential earthquake losses in Western Montana.												
	High				Medium					Low	Rating Average	Re
Goal: Reduce potential earthquake losses in Western Montana.	37.0% (10)	29.6% (8)	18.5% (5)	11.1% (3)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.15	
Provide greater enforcement of current building codes	53.6% (15)	10.7% (3)	21.4% (6)	3.6% (1)	10.7% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.07	
Develop model seismic building codes	32.1% (9)	21.4% (6)	32.1% (9)	3.6% (1)	10.7% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.39	
Create stronger building standards for critical facilities and structures housing vulnerable populations	59.3% (16)	18.5% (5)	18.5% (5)	0.0% (0)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	1.70	
Require earthquake drills in schools in Western Montana	42.9% (12)	10.7% (3)	25.0% (7)	10.7% (3)	10.7% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.36	
Expand and upgrade earthquake monitoring network and reporting capabilities	28.6% (8)	17.9% (5)	28.6% (8)	17.9% (5)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.57	
Continue “Earthquake Preparedness Month” outreach activities during the month of October	39.3% (11)	17.9% (5)	17.9% (5)	10.7% (3)	10.7% (3)	0.0% (0)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.50	
Implement non-structural mitigation projects to harden State and community infrastructure from seismic hazards	28.6% (8)	21.4% (6)	21.4% (6)	17.9% (5)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	2.75	
Seismically retrofit existing critical facilities and government assets	39.3% (11)	25.0% (7)	17.9% (5)	10.7% (3)	3.6% (1)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.25	
	<i>answered question</i>											

	skipped question	
Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		5
	answered question	5
	skipped question	47

Goal: Minimize economic impacts of drought.												
	High				Medium					Low	Rating Average	R
Develop a system for distributing information on current conditions	18.5% (5)	18.5% (5)	14.8% (4)	11.1% (3)	33.3% (9)	0.0% (0)	0.0% (0)	0.0% (0)	3.7% (1)	0.0% (0)	3.44	
Continue to support the State Drought Advisory Committee	22.2% (6)	18.5% (5)	14.8% (4)	11.1% (3)	22.2% (6)	7.4% (2)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.30	
Install Statewide drought monitoring stations	22.2% (6)	11.1% (3)	18.5% (5)	7.4% (2)	33.3% (9)	7.4% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.41	
Use long-term groundwater monitoring to assess drought conditions	18.5% (5)	14.8% (4)	29.6% (8)	14.8% (4)	18.5% (5)	0.0% (0)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.15	
Educate farmers and ranchers in fiscally preventing drought losses	29.6% (8)	33.3% (9)	14.8% (4)	7.4% (2)	7.4% (2)	3.7% (1)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.56	
Educate farmers and ranchers in reducing physical losses during dry seasons	25.9% (7)	33.3% (9)	18.5% (5)	3.7% (1)	11.1% (3)	3.7% (1)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.67	
Identify water retention projects that could lessen the effects of drought	33.3% (9)	33.3% (9)	18.5% (5)	11.1% (3)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.19	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											3
	answered question										3
	skipped question										49

Goal: Reduce impacts from severe winter weather.												
	High				Medium					Low	Rating Average	R
Distribute winter driving and survival tips	32.1% (9)	14.3% (4)	25.0% (7)	3.6% (1)	14.3% (4)	7.1% (2)	0.0% (0)	3.6% (1)	0.0% (0)	0.0% (0)	2.93	
Increase public awareness of winter weather hazards	35.7% (10)	14.3% (4)	25.0% (7)	3.6% (1)	10.7% (3)	7.1% (2)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.75	
Create partnerships with utility companies and negotiate for shorten span distances between power poles to better withstand snow loads and severe storms	14.3% (4)	17.9% (5)	28.6% (8)	10.7% (3)	28.6% (8)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.21	
Improve communication between emergency response personnel and road departments to facilitate coordination during extreme weather	32.1% (9)	28.6% (8)	25.0% (7)	7.1% (2)	7.1% (2)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.29	
Structurally analyze all buildings or rooms identified as shelters and strengthen these as necessary	17.9% (5)	28.6% (8)	17.9% (5)	10.7% (3)	21.4% (6)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.00	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.											
											Response Count
											4
	answered question										4
	skipped question										48

Goal: Reduce impacts from Severe Summer Weather (thunderstorms, wind, hail, tornadoes)												
	High				Medium					Low	Rating Average	
Install safety film on critical facilities to prevent shattering glass.	17.9% (5)	3.6% (1)	25.0% (7)	14.3% (4)	25.0% (7)	10.7% (3)	0.0% (0)	0.0% (0)	3.6% (1)	0.0% (0)	3.79	
Encourage development and enforcement of wind resistant buildings and construction codes	14.3% (4)	17.9% (5)	25.0% (7)	7.1% (2)	25.0% (7)	7.1% (2)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	3.46	
Develop and implement programs to keep trees from threatening lives, property and public infrastructure during windstorm events	15.4% (4)	19.2% (5)	23.1% (6)	11.5% (3)	26.9% (7)	3.8% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	3.27	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		2
	answered question	2
	skipped question	50

Goal: Reduce losses from Hazardous Material Incidents												
	High				Medium					Low	Rating Average	Re
Develop communication plan for hazardous material emergencies	44.4% (12)	22.2% (6)	14.8% (4)	3.7% (1)	11.1% (3)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.26	
Enhance information capability on types of hazardous materials traveling transportation routes	35.7% (10)	28.6% (8)	14.3% (4)	3.6% (1)	17.9% (5)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.39	
Provide hazardous material training to emergency responders	53.6% (15)	17.9% (5)	7.1% (2)	10.7% (3)	10.7% (3)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.07	
Develop evacuation procedures for homes near transportation networks that commonly carry hazardous materials	42.9% (12)	21.4% (6)	14.3% (4)	17.9% (5)	3.6% (1)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	2.18	
	answered question											
	skipped question											

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		2
	answered question	2
	skipped question	50

Goal: Encourage mitigation of potentially devastating but historically less frequent hazards.											
	High				Medium					Low	Rating Average
Identify and map areas of greatest landslide and avalanche potential	18.5% (5)	11.1% (3)	11.1% (3)	14.8% (4)	25.9% (7)	11.1% (3)	0.0% (0)	3.7% (1)	0.0% (0)	3.7% (1)	3.96
Create a landslide/avalanche technical committee	3.7% (1)	11.1% (3)	11.1% (3)	22.2% (6)	14.8% (4)	14.8% (4)	11.1% (3)	7.4% (2)	0.0% (0)	3.7% (1)	4.85
Support the mitigation related goals, objectives, and actions of the Montana Homeland Security Strategic Plan	14.8% (4)	11.1% (3)	18.5% (5)	11.1% (3)	18.5% (5)	18.5% (5)	7.4% (2)	0.0% (0)	0.0% (0)	0.0% (0)	3.93
Reduce losses from communicable disease	29.6% (8)	14.8% (4)	33.3% (9)	7.4% (2)	3.7% (1)	7.4% (2)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.78
Increase awareness of risks from communicable disease	29.6% (8)	22.2% (6)	25.9% (7)	7.4% (2)	3.7% (1)	7.4% (2)	3.7% (1)	0.0% (0)	0.0% (0)	0.0% (0)	2.70
	answered question										
	skipped question										

Please write-in any specific mitigation projects related to this goal you feel should be added to the plan.		
		Response Count
		1
	answered question	1
	skipped question	51

Please indicate how long it took you to complete the survey.			
		Response Percent	Response Count
5 minutes	<div><div></div></div>	3.7%	1
10 minutes	<div><div></div></div>	22.2%	6
15 minutes	<div><div></div></div>	37.0%	10
20 minutes	<div><div></div></div>	25.9%	7
30 minutes	<div><div></div></div>	7.4%	2
Greater than 30 minutes	<div><div></div></div>	3.7%	1
	answered question		27
	skipped question		25

District 3 On-Line Survey - Other Jurisdictions Completing Plan

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





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Comment Text		Response Date
 Find	1. Red Cross	Wed, 6/6/07 7:28 PM
 Find	2. City of Helena	Wed, 6/6/07 2:40 PM
 Find	3. Private Higher Education	Wed, 6/6/07 7:29 AM
 Find	4. City	Wed, 6/6/07 7:20 AM
 Find	5. USFS and CERT	Wed, 6/6/07 6:01 AM
 Find	6. city	Tue, 6/5/07 12:47 PM
 Find	7. test	Tue, 6/5/07 9:21 AM
 Find	8. Human Services	Fri, 5/25/07 12:38 PM
 Find	9. City of Helena	Fri, 5/25/07 11:27 AM
 Find	10. Airport Authority	Fri, 5/25/07 8:59 AM
 Find	11. Media	Thu, 5/24/07 3:19 PM
 Find	12. American Red Cross-volunteer	Thu, 5/24/07 1:31 PM
		25 responses per page 

District 3 On-Line Survey - Suggested Improvements to State Plan

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Comment Text		Response Date
 Find	1. Better priority setting based on risks involved	Tue, 7/3/07 4:05 PM
 Find	2. Maybe change some of the rankings	Wed, 6/6/07 2:40 PM
 Find	3. A section that would be mitigation project oriented....."what, as a State, we are going to do to address the risk from the hazards". Local govt's are required to do that. It is obvious that the State, as a land manager for example needs to be addressing the wildland fuel hazard. The Fish, Wildlife & Parks definitely needs to get into the mitigation game in their parks, day use facilities, etc. Even the MDOT has areas that can use some fuel hazard reduction. They also can reference a committment to mitigation of the hazards that are identified by providing funding to address those hazards.	Tue, 6/5/07 1:54 PM
 Find	4. none	Tue, 6/5/07 9:35 AM
 Find	5. test	Tue, 6/5/07 9:21 AM
 Find	6. none	Tue, 6/5/07 8:36 AM
 Find	7. none	Tue, 6/5/07 8:26 AM
 Find	8. Simplify it. It's too many volumes to be useful right now.	Wed, 5/30/07 10:29 AM
 Find	9. More thorough and knowledgable focus on impacts to food safety and supply issues.	Thu, 5/24/07 1:28 PM
 Find	10. The update that is possible only because all of the counties and tribes have finally completed or nearly completed their local plans.	Thu, 5/24/07 8:07 AM
		10 responses per page 

District 3 On-Line Survey - Suggested New Goals

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Comment Text		Response Date
 Find	1. Increase citizen preparedness for all hazards.	Thu, 6/21/07 9:25 PM
 Find	2. None at this time	Wed, 6/6/07 2:45 PM
 Find	3. Maintain up-to-date seismic codes and the general understanding of those codes on the part of engineering professionals and construction review personnel so that construction projects are conducted safely but are affordable. Reverse the tendency to "overdo" seismic protection installations by studying more advanced techniques as practiced in high seismic risk urban areas.	Wed, 6/6/07 7:37 AM
 Find	4. Improve public safety communications interoperability at the local level, including local infrastructure and subscriber units.	Tue, 6/5/07 1:44 PM
 Find	5. Asses and define the true (vs theoretical) ability of FEMA to assist during an emergency. I.E. is FEMA actually a disaster within a disaster.	Tue, 5/29/07 9:40 AM
 Find	6. Have a basic plan to deal with media inquiries and building relationships with the media.	Thu, 5/24/07 3:56 PM
		10 responses per page 

District 3 On-Line Survey - Other Goal 1 Mitigation Projects

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Comment Text		Response Date
 Find	1. Continue funding for mitigation projects (fuel reduction/survivable space/defensible space) in the wildland/urban interface.	Tue, 7/3/07 4:39 PM
 Find	2. Educate ALL public school students in preparedness activities.	Thu, 6/21/07 9:32 PM
 Find	3. convince the Legislature to fund all this.	Thu, 6/7/07 1:30 PM
 Find	4. Wildfire fuels mitigation and planning/funding.	Thu, 6/7/07 5:30 AM
 Find	5. Include economic and social values in inventories of structures and areas considered for hazard mitigation planning. Values to include tourism value, heritage value, scenic value, etc.	Wed, 6/6/07 7:43 AM
 Find	6. In the first question above.....please don't just make it a duplicative system to what is already out there. Many of the counties already are strapped with financing a GIS system of their own, when there seems to be NRIS systems out there that are duplicating what is already available locally. Or, finance it as a state system that the counties tap into. No sense in the taxpayers paying for it twice.	Tue, 6/5/07 2:11 PM
 Find	7. There is only so much that can be done for people when they are not willing to help themselves. Most rural people are prepared and take care of each other anyway.	Thu, 5/24/07 8:21 AM
		10 responses per page 

District 3 On-Line Survey - Other Goal 2 Mitigation Projects

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Comment Text		Response Date
 Find	1. Private advisory group should be made up of citizens concerned with mitigation needs. Strengthen and enforce mitigation standards in state and/or local subdivision regulations	Thu, 6/21/07 9:32 PM
 Find	2. None at this time.	Thu, 6/7/07 1:30 PM
 Find	3. I am not sure what "streamline mitigation standards in state and/or local subdivision regulations" means in the question above. Streamlining can lead to weakening and a door opened can lead to the horse getting away for good. There definitely needs to be a strengthening.	Tue, 6/5/07 2:11 PM
 Find	4. Is there a State Hazard Mitigation Team?	Thu, 5/24/07 8:21 AM
		10 responses per page 

District 3 On-Line Survey - Other Drought Mitigation Projects

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Comment Text		Response Date
 Find	1. Quantify the effects of drought on wildfire potential.	Tue, 7/3/07 5:53 PM
 Find	2. none at this time	Thu, 6/7/07 1:40 PM
 Find	3. I think most of this section is pretty well covered with existing program. Telling farmers and ranchers anything is like preaching to the choir. I don't know any who don't do what they can now. Water retention education needs to start with the Army Corp of Engineers and their continuous draw down of the Missouri and Fort Peck reserviors	Thu, 5/24/07 8:30 AM
		10 responses per page 

District 3 On-Line Survey - Other Earthquake Mitigation Projects

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Comment Text		Response Date
 Find	1. Educate public on their responsibility for preparedness for earthquake.	Thu, 6/21/07 9:37 PM
 Find	2. none at this time.	Thu, 6/7/07 1:38 PM
 Find	3. Constantly review and incorporate the most advanced seismic techniques into codes and practices. Constantly update professionals responsible for seismic protection design and construction on those techniques.	Wed, 6/6/07 7:48 AM
 Find	4. Provided for adequate local infrastructure to provide critical services post quake that are sufficient to support survivors for 2 weeks after a major quake.	Thu, 5/24/07 1:39 PM
 Find	5. be careful with building codes. make sure they are friendly to historic building preservation. too many times historic buildings are deemed unsafe or not usable because of the theory that they have to be retrofitted to be like new buildings.	Wed, 5/23/07 4:03 PM
		10 responses per page 

District 3 On-Line Survey - Other Flood Mitigation Projects

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Comment Text		Response Date
 Find	1. Increase the public awareness of their responsibility during times of flooding.	Thu, 6/21/07 9:37 PM
 Find	2. none at this time	Thu, 6/7/07 1:38 PM
 Find	3. People who build in flood plains need to take care of their own mitigation problems	Thu, 5/24/07 8:25 AM
		10 responses per page 

District 3 On-Line Survey - Other Hazardous Material Mitigation Projects

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Comment Text		Response Date
 Find	1. Increase public awareness of shelter-in-place procedures for homes near transportation networks that commonly carry hazardous materials.	Thu, 6/21/07 9:44 PM
 Find	2. Where a shelter will be set up and to have people even though they may not be staying there, to check in so concern family members or friends know that they are ok.	Wed, 6/6/07 7:44 PM
		10 responses per page 

District 3 On-Line Survey - Other Mitigation Projects for Less Frequent Hazards

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Comment Text		Response Date
 Find	1. Increase public awareness of preparedness responsibilities regarding communicable diseases.	Thu, 6/21/07 9:44 PM
		10 responses per page 

District 3 On-Line Survey - Other Wildfire Mitigation Projects

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Comment Text		Response Date
 Find	1. Support and fund a state-wide FIRESAFE/FIREWISE ORGANIZATION that can gather,disseminate,and assist counties and other political subdivisions with grant information, project development and operations.	Tue, 7/3/07 5:44 PM
 Find	2. Emphasize public responsibility for defensible space in the wildland urban interface.	Thu, 6/21/07 9:37 PM
 Find	3. none at this time	Thu, 6/7/07 1:38 PM
 Find	4. Mitigation efforts must be stepped up on Federal lands adjacent to private/state.	Thu, 6/7/07 5:33 AM
 Find	5. 2 comments on this section.....mitigation is not about increasing the "response stuff". If mitigation is being done the "response" dollar should be less. If we were allowed the \$1.2 Billion that was spent on fire suppression last year for mitigation work, you shouldn't need the expense of high priced response. (2) I don't know that we need to be "encouraging" sustainable growth, but certainly it is happening without it. What we need to insist on where that growth is occuring is the highest mitigation standards in order for the growth to continue. It is of course hard to rate any of the questions above at anything less than a high rating. Who can be against all that good "enhancing".	Tue, 6/5/07 2:19 PM
 Find	6. Education should help mitigate human caused ingition but I don't know how you can "project" this topic	Thu, 5/24/07 8:25 AM
		10 responses per page 

District 3 On-Line Survey - Other Severe Summer Weather Mitigation Projects

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Comment Text		Response Date
 Find	1. Encourage all developments to bury electric lines that could blow down and start fires.	Tue, 7/3/07 5:53 PM
 Find	2. Educate public on native tree species which are more wind resistant.	Thu, 6/21/07 9:44 PM
		10 responses per page 

District 3 On-Line Survey - Other Severe Summer Storm Mitigation Projects

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Comment Text		Response Date
 Find	1. Increase public awareness of their responsibility to be prepared for severe winter storms.	Thu, 6/21/07 9:44 PM
 Find	2. Structurally analyze local emergency services facilities and assist and strengthen as necessary or assist with all new constructions.	Thu, 6/7/07 5:37 AM
 Find	3. Being born and growing up in Montana, I'm probably not the best person to answer this question. It is common sense, but with all the people moving here from out of state it may be of great importance.	Wed, 6/6/07 7:44 PM
 Find	4. The new interoperable communications sytem that is being worked on includes emergency response personnel and road departments. Getting it done is a matter of finances	Thu, 5/24/07 8:30 AM
		10 responses per page 

District 3 On-Line Survey-Impact of Future Development on Communicable Disease Hazard

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Comment Text		Response Date
 Find	1. Will increase as population increases.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the hazard	Thu, 6/21/07 9:23 PM
 Find	3. Increase as population in county and city of Helena increases, Whooping Cough outbreak would be an example	Tue, 6/19/07 3:40 PM
 Find	4. More people more victims	Wed, 6/6/07 2:44 PM
 Find	5. more people, more hazard	Wed, 6/6/07 7:24 AM
 Find	6. increase the risks	Tue, 6/5/07 2:17 PM
 Find	7. More folks.....more chances for disease spread	Tue, 6/5/07 2:01 PM
 Find	8. Mushrooming development can only increase this risk.	Tue, 6/5/07 1:44 PM
 Find	9. More people = greater possibility	Tue, 6/5/07 1:09 PM
 Find	10. None	Fri, 5/25/07 11:31 AM
 Find	11. infrastructure support	Fri, 5/25/07 9:17 AM
 Find	12. More people travelling in	Fri, 5/25/07 9:01 AM
 Find	13. Impact on Staff and viewers who watch news	Thu, 5/24/07 3:32 PM
 Find	14. M	Thu, 5/24/07 12:29 PM
 Find	15. The county is growing so it could be higher	Thu, 5/24/07 8:13 AM
 Find	16. Higner incidence due to increse # of residents	Wed, 5/23/07 4:01 PM
 Find	17. depends on severity (mortality rate) of infectious disease	Wed, 5/23/07 3:12 PM
 Find	18. Surveillance will have to be maintained at a heightened level, with immunization rates high	Wed, 5/23/07 2:31 PM
		50 responses per page 

District 3 On-Line Survey-Impact of Future Development on Drought Hazard

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Comment Text		Response Date
 Find	1. Homes built in the WUI will be at a higher risk (from fire) as will agriculture.	Tue, 7/3/07 4:30 PM
 Find	2. Will not affect	Thu, 6/21/07 9:23 PM
 Find	3. Risk increases as global warming changes climates and snowfall decreases	Tue, 6/19/07 3:40 PM
 Find	4. Water and power shortages	Wed, 6/6/07 2:44 PM
 Find	5. less agricultural impacts will result as ag declines	Wed, 6/6/07 7:24 AM
 Find	6. n/a	Tue, 6/5/07 2:17 PM
 Find	7. Seems to be getting drier every year	Tue, 6/5/07 2:01 PM
 Find	8. More users + less available water=greater hazard	Tue, 6/5/07 1:44 PM
 Find	9. not much	Tue, 6/5/07 1:09 PM
 Find	10. None	Fri, 5/25/07 11:31 AM
 Find	11. agriculture, drinking water supply	Fri, 5/25/07 9:17 AM
 Find	12. Too many new wells in an already stressed water table	Fri, 5/25/07 8:09 AM
 Find	13. Impacts the types of stories we cover and how we cover them	Thu, 5/24/07 3:32 PM
 Find	14. M	Thu, 5/24/07 12:29 PM
 Find	15. more subdivisions mean fewer crop/pasture land but more water users	Thu, 5/24/07 8:13 AM
 Find	16. some impact due to increased water use	Wed, 5/23/07 4:01 PM
 Find	17. where will water come from for new subdivisions and at what cost	Wed, 5/23/07 3:12 PM
 Find	18. Concern for water conservation	Wed, 5/23/07 2:31 PM
		50 responses per page 

District 3 On-Line Survey-Impact of Future Development on Earthquake Hazard

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Comment Text		Response Date
 Find	1. More loss of life and property damage.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the vulnerable population	Thu, 6/21/07 9:23 PM
 Find	3. Additional population increases increase number of injured and response time if severe event occurs	Tue, 6/19/07 3:40 PM
 Find	4. More chance for impact from smaller quakes	Wed, 6/6/07 2:44 PM
 Find	5. Keeping in mind building construction and possible emergency housing capabilities.	Wed, 6/6/07 7:33 AM
 Find	6. more damage will result as development expands	Wed, 6/6/07 7:24 AM
 Find	7. increase the impact	Tue, 6/5/07 2:17 PM
 Find	8. development will only add to the size of the destruction	Tue, 6/5/07 2:01 PM
 Find	9. Development in hazard prone areas obviously exacerbates the current problem	Tue, 6/5/07 1:44 PM
 Find	10. no additional impact	Tue, 6/5/07 1:09 PM
		10 responses per page 

District 3 On-Line Survey-Impact of Future Development on Flooding Hazard

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	Comment Text	Response Date
 Find	1. Should be low if restrictions on building in the flood plain are enforced.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the vulnerable population	Thu, 6/21/07 9:23 PM
 Find	3. Growth in valley flood plain increases costs and number of people affected, dam failure would not concern Helena but downstream such as Wolf Creek would be affected	Tue, 6/19/07 3:40 PM
 Find	4. little impact to city limits, major concern for down stream	Wed, 6/6/07 2:44 PM
 Find	5. more damage will result as development expands	Wed, 6/6/07 7:24 AM
 Find	6. increase the impact	Tue, 6/5/07 2:17 PM
 Find	7. Flooding most common.....development out of the flood plain handles this one	Tue, 6/5/07 2:01 PM
 Find	8. See comment for earthquake	Tue, 6/5/07 1:44 PM
 Find	9. more people building in the flood plain	Tue, 6/5/07 1:09 PM
 Find	10. This could have a major impact in the Helena Valley	Fri, 5/25/07 11:31 AM
 Find	11. More damage, possible loss of life	Fri, 5/25/07 8:09 AM
 Find	12. We would broadcast the flooding areas, what roads are closed/open how people can protect property and evacuations	Thu, 5/24/07 3:32 PM
 Find	13. Same comment as earthquakes.	Thu, 5/24/07 2:27 PM
 Find	14. H	Thu, 5/24/07 12:29 PM
 Find	15. shouldn't change much	Thu, 5/24/07 8:13 AM
 Find	16. great impact	Wed, 5/23/07 4:01 PM
 Find	17. cyclical	Wed, 5/23/07 3:12 PM
 Find	18. continued evaluation of the dams on the Missouri	Wed, 5/23/07 2:31 PM
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District 3 On-Line Survey-Impact of Future Development on Hazardous Material Incidents

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Comment Text		Response Date
 Find	1. Will increase as population increases.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the vulnerable population	Thu, 6/21/07 9:23 PM
 Find	3. number of injured and response time if severe event occurs	Tue, 6/19/07 3:40 PM
 Find	4. increase risk	Thu, 6/7/07 5:26 AM
 Find	5. Additional chances for accidents	Wed, 6/6/07 2:44 PM
 Find	6. more damage will result as development/economic activity expands	Wed, 6/6/07 7:24 AM
 Find	7. increase the impact	Tue, 6/5/07 2:17 PM
 Find	8. Again, more stuff moving and being stored means more chance for problems.	Tue, 6/5/07 2:01 PM
 Find	9. Interstate transport through increasingly urbanized areas without attendant increase in mitigation and response capability.	Tue, 6/5/07 1:44 PM
 Find	10. not much	Tue, 6/5/07 1:09 PM
 Find	11. Future development would have a low impact	Fri, 5/25/07 11:31 AM
 Find	12. More disruption as our rail lines go right thru the center of town	Fri, 5/25/07 8:09 AM
 Find	13. Would report road/RR Track closures and if any plumes are headed toward residential areas and what the public should do.	Thu, 5/24/07 3:32 PM
 Find	14. M	Thu, 5/24/07 12:29 PM
 Find	15. our risk is 2 interstate highways	Thu, 5/24/07 8:13 AM
 Find	16. great impact	Wed, 5/23/07 4:01 PM
 Find	17. rare but do occur	Wed, 5/23/07 3:12 PM
 Find	18. Evaluation of policies regarding handling, storage and transporting hazardous material	Wed, 5/23/07 2:31 PM
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District 3 On-Line Survey-Impact of Future Development on Landslide Hazard

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	Comment Text	Response Date
 Find	1. Shouldn't be much impact particularly if subdivision reg's are enforced for no building on slopes over 30%.	Tue, 7/3/07 4:30 PM
 Find	2. n/a	Thu, 6/21/07 9:23 PM
 Find	3. Not really a concern	Tue, 6/19/07 3:40 PM
 Find	4. Only if Mount Helena lets go	Wed, 6/6/07 2:44 PM
 Find	5. more damage will result as development expands	Wed, 6/6/07 7:24 AM
 Find	6. n/a	Tue, 6/5/07 2:17 PM
 Find	7. If it is caused by development then sure.....otherwise not going to change	Tue, 6/5/07 2:01 PM
 Find	8. no additional impact	Tue, 6/5/07 1:09 PM
 Find	9. Low	Fri, 5/25/07 11:31 AM
 Find	10. Landslides are unlikely, but in the event of a landslide we would report on the damage and safety of the general area	Thu, 5/24/07 3:32 PM
 Find	11. L	Thu, 5/24/07 12:29 PM
 Find	12. would change if there are more fires	Thu, 5/24/07 8:13 AM
 Find	13. low impact	Wed, 5/23/07 4:01 PM
 Find	14. Evaluation and communication regarding landslides	Wed, 5/23/07 2:31 PM
		25 responses per page 

District 3 On-Line Survey-Impact of Future Development on Severe Summer Weather Hazard

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








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Comment Text		Response Date
 Find	1. As development increases so will the chances for damage from these natural events.	Tue, 7/3/07 4:30 PM
 Find	2. n/a	Thu, 6/21/07 9:23 PM
 Find	3. number of injured and response time if severe event occurs	Tue, 6/19/07 3:40 PM
 Find	4. roads, traffic, power shortages	Wed, 6/6/07 2:44 PM
 Find	5. more damage will result as development expands	Wed, 6/6/07 7:24 AM
 Find	6. increase the impact	Tue, 6/5/07 2:17 PM
 Find	7. Weather is not impacted by more development.....again more development, more exposure, possibility for more damage.	Tue, 6/5/07 2:01 PM
 Find	8. no additional impact	Tue, 6/5/07 1:09 PM
 Find	9. Unknown	Fri, 5/25/07 11:31 AM
 Find	10. seasonal situation	Fri, 5/25/07 9:01 AM
 Find	11. More destruction	Fri, 5/25/07 8:09 AM
 Find	12. Warn the public of storms, how to stay safe in severe wx, and any evacuations if any.	Thu, 5/24/07 3:32 PM
 Find	13. M	Thu, 5/24/07 12:29 PM
 Find	14. more structures to be effected	Thu, 5/24/07 8:13 AM
 Find	15. some impact	Wed, 5/23/07 4:01 PM
 Find	16. Hail can do major damage (economic)	Wed, 5/23/07 3:12 PM
 Find	17. Continued monitoring of the weather to warn populations in the path of a storm	Wed, 5/23/07 2:31 PM
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District 3 On-Line Survey-Impact of Future Development on Terrorism Hazard

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Comment Text		Response Date
 Find	1. I don't believe the terrorists are much interested in Montana.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the hazard	Thu, 6/21/07 9:23 PM
 Find	3. Not to much of a concern	Tue, 6/19/07 3:40 PM
 Find	4. Possible problems at the Capital and different anti government groups	Wed, 6/6/07 2:44 PM
 Find	5. I wonder about the Helena Civic Center as a target	Wed, 6/6/07 7:24 AM
 Find	6. n/a	Tue, 6/5/07 2:17 PM
 Find	7. society is getting more antsy on this one, more folks, more potential for violence.	Tue, 6/5/07 2:01 PM
 Find	8. While the direct risk of terrorist incident within the county is not high, this relatively rural area would represent a good staging area for such events. As a related matter, the incidence of violence can be expected to increase as numbers of visitors and residents continue to increase.	Tue, 6/5/07 1:44 PM
 Find	9. more people = less familiarity	Tue, 6/5/07 1:09 PM
 Find	10. Low	Fri, 5/25/07 11:31 AM
 Find	11. We would give the public whatever information we could release about the incident what they should do, how to talk to their kids and what safety precautions they should take.	Thu, 5/24/07 3:32 PM
 Find	12. L	Thu, 5/24/07 12:29 PM
 Find	13. probably not much change	Thu, 5/24/07 8:13 AM
 Find	14. low impact	Wed, 5/23/07 4:01 PM
 Find	15. probability increases daily	Wed, 5/23/07 3:12 PM
 Find	16. Little risk in MT	Wed, 5/23/07 2:31 PM
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District 3 On-Line Survey-Impact of Future Development on Volcanic Eruption Hazard

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







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Comment Text		Response Date
 Find	1. The only impact I see from this event is ash fall-out from an eruption up wind.	Tue, 7/3/07 4:30 PM
 Find	2. n/a	Thu, 6/21/07 9:23 PM
 Find	3. Not really a concern	Tue, 6/19/07 3:40 PM
 Find	4. not much	Wed, 6/6/07 2:44 PM
 Find	5. not much chance here	Wed, 6/6/07 7:24 AM
 Find	6. increase the impact	Tue, 6/5/07 2:17 PM
 Find	7. no additional impact	Tue, 6/5/07 1:09 PM
 Find	8. Low	Fri, 5/25/07 11:31 AM
 Find	9. Report on air quality, damage assessments of local area if any, what impact it has on our community and evacuees of an area if any.	Thu, 5/24/07 3:32 PM
 Find	10. L	Thu, 5/24/07 12:29 PM
 Find	11. the volcanos in Jefferson County are inactive. Mt St Helens Continues to perform and the Yellowstone lake cauldron could wipe us all out	Thu, 5/24/07 8:13 AM
 Find	12. low impact	Wed, 5/23/07 4:01 PM
 Find	13. Like earthquake - if caldera goes	Wed, 5/23/07 3:12 PM
 Find	14. minimal risk	Wed, 5/23/07 2:31 PM
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District 3 On-Line Survey-Impact of Future Development on Wildfire Hazard

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	Comment Text	Response Date
 Find	1. This is a critical hazard for our area. Uncontrolled development in the wildland/urban Interface is at risk annually, particularly now with Global Warming. The impact, as with all the listed hazards, is the increased potential for loss of life and property damage.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the hazard	Thu, 6/21/07 9:23 PM
 Find	3. Global warming and increased building in forest areas increasing costs of wildfire suppression significantly	Tue, 6/19/07 3:40 PM
 Find	4. Increase risk	Thu, 6/7/07 5:26 AM
 Find	5. More chances for victims as growth moves up the into the hills	Wed, 6/6/07 2:44 PM
 Find	6. more damage will result as development expands	Wed, 6/6/07 7:24 AM
 Find	7. increase the impact	Tue, 6/5/07 2:17 PM
 Find	8. The biggy...more WUI.....more fires.....more chance for human starts.....more damage and loss.	Tue, 6/5/07 2:01 PM
 Find	9. Drought and an attendant long time between major fires result in a continuing acceleration of the risk/hazard level.	Tue, 6/5/07 1:44 PM
 Find	10. more people = more possibility of people started fires	Tue, 6/5/07 1:09 PM
 Find	11. Very High	Fri, 5/25/07 11:31 AM
 Find	12. more homes and people in wilderness	Fri, 5/25/07 9:01 AM
 Find	13. Regulations mitigating impact may be required	Fri, 5/25/07 8:19 AM
 Find	14. More destruction,possible loss of life	Fri, 5/25/07 8:09 AM
 Find	15. Evacuations of certain areas, how much the fire has burned or is contained. The wx conditions and their impact on the fire and which direction the fire is traveling.	Thu, 5/24/07 3:32 PM
 Find	16. Increased building in rural interface without required mitigation measures will only exacerbate current problems.	Thu, 5/24/07 2:27 PM
 Find	17. H	Thu, 5/24/07 12:29 PM
 Find	18. high	Thu, 5/24/07 8:13 AM
 Find	19. great impact	Wed, 5/23/07 4:01 PM
 Find	20. increase risk or cause	Wed, 5/23/07 3:43 PM
 Find	21. consider where/how we are building	Wed, 5/23/07 3:12 PM
 Find	22. Continued problems each summer. Need for public education.	Wed, 5/23/07 2:31 PM
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District 3 On-Line Survey-Impact of Future Development on Severe Winter Weather Hazard

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Comment Text		Response Date
 Find	1. I don't believe that future development will have much impact on winter storms or avalanche threat in our area.	Tue, 7/3/07 4:30 PM
 Find	2. Will increase the vulnerable population	Thu, 6/21/07 9:23 PM
 Find	3. Less severe in last 10 years then previously, not as much of an issue	Tue, 6/19/07 3:40 PM
 Find	4. not much chance of this happening	Wed, 6/6/07 2:44 PM
 Find	5. more damage will result as development expands	Wed, 6/6/07 7:24 AM
 Find	6. increase the impact	Tue, 6/5/07 2:17 PM
 Find	7. I wish you had not combined these two.....but see the comments above on thunderstorms, etc.	Tue, 6/5/07 2:01 PM
 Find	8. no additional impact	Tue, 6/5/07 1:09 PM
 Find	9. Moderate	Fri, 5/25/07 11:31 AM
 Find	10. More accidents, loss of life	Fri, 5/25/07 8:09 AM
 Find	11. Warnings to the public, what to have on hand in case snowed in, how to survive an avalanche and how to spot avalanche conditions	Thu, 5/24/07 3:32 PM
 Find	12. M	Thu, 5/24/07 12:29 PM
 Find	13. more people not prepared to sit out power outages	Thu, 5/24/07 8:13 AM
 Find	14. some impact	Wed, 5/23/07 4:01 PM
 Find	15. Continued risk. Again need for public education	Wed, 5/23/07 2:31 PM
		25 responses per page 

**2007 UPDATE TO THE STATE OF MONTANA
MULTI-HAZARD MITIGATION PLAN AND
STATEWIDE HAZARD ASSESSMENT**

Mitigation Projects

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.1 - Increase readiness for the protection of life and property during an event.

Beaverhead County

High Priority

- Upgrade the telephone system at the Emergency Operations Center to improve the multiple tasks of communication.
- Upgrade the dispatch console for the Emergency Operations Center and 911 backup with the equipment necessary to be Project 25 and digital compliant as required by new communications equipment.
- Install pigtailed (electrical wiring) and 2-way switches at all Volunteer Fire Departments and Emergency Response Units for generator power supply to buildings.

Broadwater County

Medium Priority

- Promote street signs and numbers throughout the County, possibly in cooperation with 4-H.

Gallatin County

Medium Priority

- Install or designate back-up systems for critical infrastructure, including emergency communication systems.
- Identify, prioritize and harden infrastructure from damages during disasters.
- Install an uninterruptible power supplies on all Gallatin County Public Safety Communications Systems.
- Install generators at critical facilities and vulnerable population locations.
- Develop a sheltering plan specific to utility failure.

Park County

Medium Priority

- Develop a dispatch function mutual aid system with Gallatin Co.
- Install an uninterruptible power supply for Park Co. Dispatch.
- Develop a sheltering plan specific to utility failures.
- Install generators at critical facilities and vulnerable population locations.
- Install or designate back-up systems for critical infrastructure, including emergency communications systems.
- Identify, prioritize and harden infrastructure from damages during disasters.
- Protect North Repeater from vandals through bulletproof casing.
- Create a finite, hardened Emergency Operations Center and alternate location.

Sweet Grass County

High Priority

- Purchase a mobile command post trailer.
- Assess communication needs in the county.

OBJECTIVE 1.2 - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

Beaverhead County

High Priority

- Assist with the purchase of backup power system for the facility to enhance our warning and public information capabilities.

Gallatin County

Medium Priority

- Put NOAA weather radios transmitter in the West Yellowstone area and receivers in critical facilities and schools.
- Develop an Emergency Alert System plan.

Park County

Medium Priority

- Put NOAA Weather Radios in critical facilities and schools.
- Develop an Emergency Alert System plan.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 1 - Maximize the use of mitigation actions that prevent losses from all hazards.

OBJECTIVE 1.2 - Enable every citizen in Montana to receive critical warning information immediately no matter where he/she is.

Sweet Grass County

High Priority

- Improve the 911 system by implementing E911 in a timely manner.

OBJECTIVE 1.3 - Increase the public awareness of hazards.

Beaverhead County

High Priority

- Continue to encourage the thought process about how to mitigate risks and vulnerabilities to our communities.

OBJECTIVE 1.4 - Continuously improve hazard assessments and the associated evaluation of vulnerabilities from all hazards.

Gallatin County

Medium Priority

- Develop GIS data that can be used with FEMA's HAZUS loss estimated models specifically the flood module.

Park County

Medium Priority

- Develop GIS data that can be used with FEMA's HAZUS loss estimated models.

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.1 - Enhance firefighting resources and improve firefighting capabilities.

Gallatin County

Medium Priority

- Develop and maintain a Community Wildfire Protection Plan.

Park County

Medium Priority

- Develop and maintain a Community Wildfire Protection Plan.

Sweet Grass County

High Priority

- Support action groups in the county with fuels reductions projects.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Beaverhead County

High Priority

- Restore and rehabilitate forest and grassland health.
- Risk reduction project and vegetation treatment.

Broadwater County

Medium Priority

- Encourage and support USFS initiative for landscape level burning and fuel mitigation projects.
- Encourage current landowners to reduce fuels in wildland interface and around homes through a financial incentive program.

Gallatin County

Medium Priority

- Encourage homeowners to reduce fuels around structures and create a fire defensible space.
- Conduct fuels reduction along utility right-of-ways.
- Reduce fuels along ingress and egress roadways.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.2 - Reduce fuels in the wildland urban interface (WUI), rangeland and communities.

Lewis & Clark County

High Priority

- Develop Douglas Circle Subdivision defensible space.
- Unionville/South Hills fuels reduction.
- Develop City of Helena open space.
- York area fuels reduction.
- Develop Lincoln area defensible space.
- Develop Front Range defensible space.
- Develop Dearborn area defensible space.
- Marysville area fuels reduction.
- Develop Wolf Creek area defensible space.
- Colorado Gulch fuels reduction.
- Develop Mountain Heritage Estates defensible space.
- North Hills Fuel Hazard Reduction (Sieben livestock land).
- Priest Pass area fuels reduction.
- Develop defensible space (countywide).

Park County

Medium Priority

- Conduct fuels reduction along utility right-of-ways.
- Reduce fuels along ingress and egress roadways.

OBJECTIVE 3.3 - Enhance community awareness of wildfires through education.

Broadwater County

High Priority

- Public education program targeting those at high risk from wildland/urban interface fires demonstrating mitigation techniques.

Gallatin County

Medium Priority

- Promote Fire Wise type programs.

Lewis & Clark County

High Priority

- Promote FIREWISE program.
- Develop continuous education and awareness of fire danger.

Park County

Medium Priority

- Promote Firewise type programs.

OBJECTIVE 3.4 - Accurately assess and address the current wildland urban interface problems at the subdivision level.

Broadwater County

High Priority

- Revise subdivision regulations to reduce wildfire and structure fire hazards such as requiring a water supply, sprinklers, and/or defensible space.

Gallatin County

Medium Priority

- Conduct individual WUI Assessments.
- Require defensible space and inspection of new development in the WUI.
- Revise subdivision regulations with a better focus on defensible space/maintenance and water supply requirements in the WUI.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 3 - Reduce the community impacts of wildland and rangeland fires.

OBJECTIVE 3.4 - Accurately assess and address the current wildland urban interface problems at the subdivision level.

Park County

Medium Priority

- Revise subdivision regulations with a better focus on defensible space/maintenance and water supply requirements in the wildland/urban interface.
- Require defensible space and inspection of new development in the wildland urban interface.

OBJECTIVE 3.6 - Establish mapping or record keeping practices to support fuel management strategies.

Beaverhead County

High Priority

- Conduct fire risk assessment.
- Examine fire fighter and public safety.
- Work with other agencies to enhance and provide funding for this process.

Gallatin County

Medium Priority

- Develop fuels mapping for public and private lands.
- Develop a centralized, countywide wildfire history database.

Park County

Medium Priority

- Develop fuels mapping for public and private lands.
- Develop a centralized, countywide wildfire history database.

GOAL 4 - Minimize economic impacts of drought.

OBJECTIVE 4.2 - Provide education and incentives for minimizing the effects of drought.

Beaverhead County

High Priority

- Local Emergency Planning Committee and Drought Taskforce sub-committee continue to meet and mitigate the drought mostly through education and awareness of the drought event.

OBJECTIVE 4.3 - Improve drought monitoring and assessments.

Beaverhead County

High Priority

- Develop aerial photos or GIS mapping of irrigation areas to determine accurate irrigation acres and areas. Support of project would help mitigate the amount of water available as related to the acreages.

Broadwater County

High Priority

- Support the Broadwater County Drought Advisory Committee.

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.1 - Provide adequate warning of flooding events.

Beaverhead County

High Priority

- Install early warning system at Clark Canyon Dam and Lima Dam for dam failure notification.

OBJECTIVE 5.2 - Reduce the number of current and future structures in the floodplain.

Beaverhead County

High Priority

- Identify flood prone areas in county.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.2 - Reduce the number of current and future structures in the floodplain.

Gallatin County

Medium Priority

- Consider more restrictive regulations or prohibition of development in the floodplain.
- Conduct an analysis on the feasibility of a floodplain and floodway buyout and/or relocation program.

Madison County

Low Priority

- Using all available information, identify possible hazard mitigation efforts for targets at risk. This includes floodplain buy-outs and conservation easements, zoning to limit building in high hazard areas, and mitigating structures at risk.

Park County

Medium Priority

- Require future school facilities be constructed outside the floodplain.
- Conduct an analysis on the feasibility of a floodplain and floodway buyout and/or relocation program.
- Consider more restrictive regulations or prohibition of development in the floodplain.
- Propose to the public a Park Co. bond issue for conservation easements and promote the use of state, federal and private funds to protect values along the Yellowstone River.

OBJECTIVE 5.3 - Prevent flooding of structures and infrastructure.

Beaverhead County

High Priority

- Implement floodplain studies on unstudied rivers and streams with flood potential.
- Install a permanent stream gage (satellite communication) approx. 15 miles west on Grasshopper Creek to monitor flows about 12 hours before flows reach Beaverhead River. Allows dam tenders time to adjust flows out of dam and avoid flooding.
- Replace culverts at Reeder and Railroad Streets (in Dillon) with bridges to withstand flooding.

Medium Priority

- Clean channels of debris to maintain an adequate channel size.
- Elevate Buster Brown road bridge over the Blacktail Deer Creek.
- Install stream gages (satellite communications) in several unmonitored streams in the county.
- Remove permanent earthen structure which inhabits winter natural flows in Blacktail Deer Creek.
- Install diversion control structure in Blacktail Deer Creek channel.

Broadwater County

Medium Priority

- Evaluate the Montana Ditch crossing to ensure that the Missouri River cannot flood the City, as occurred in 1963.

Gallatin County

Medium Priority

- Study alternative flood mitigation measures.
- Establish financial incentives for landowners to remove, modify or replace obsolete and non-functioning flood control and bank stabilization structures.
- Remove woody debris, as needed to protect public safety, but not excessively as such debris is important to ecological health.
- Mitigate damages to critical facilities in the 100 year flood plain.

Lewis & Clark County

High Priority

- Reroute Silver Creek around the Sewell Subdivision.
- Install culverts at Forestvale and Mill roads.
- Install culverts at Sierra Road.
- Improve the Kmart retention ponds.
- Construct new bridge at Wylie Dr and Prickly Pear Creek north of East Helena.
- Replace cobble wall along Prickly Pear Creek in East Helena to increase carrying capacity.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.3 - Prevent flooding of structures and infrastructure.

Lewis & Clark County

High Priority

- Build detention pond in the upper to middle reaches of Last Chance Gulch.
- Construct bridge at Keir Dr. in East Helena Valley.

Medium Priority

- Build detention pond in the upper reaches of Davis Gulch.
- Construct retention pond in East Helena.
- Install culvert at Wylie and York roads.

Low Priority

- Install culvert at Birdseye and Barrett roads.

Madison County

Low Priority

- Conduct a floodplain mapping project for Madison Co., Town of Ennis, Town of Sheridan, and Town of Twin Bridges, consistent with FEMA mapping protocol.

Park County

Medium Priority

- Conduct a river migration study to measure the potential for river channel avulsion between the Livingston Ditch headgate and Interstate 90.
- Conduct a US Army Corps of Engineers Section 205 Flood Control Study.
- Conduct Bank Stabilization studies on project effectiveness and ecological health.
- Establish financial incentives for landowners to remove, modify, or replace obsolete and non-functioning flood control and bank stabilization structures.
- Establish a Bank Stabilization Information Clearinghouse.
- Study alternative flood mitigation measures.
- Remove woody debris, as needed to protect public safety, but not excessively as such debris is important to ecological health.
- Consider zero backwater standards during bridge reconstruction, particularly at the Highway 10/89 South Bridge and the railroad bridge just downstream.
- Lessen hydraulic impacts when the following bridges are replaced: Emigrant, Carter's, Interstate 90, Railroad at Highway 10/89 South, Highway 10/89 South, Highway 89 North, Railroad at Highway 89 North and Springdale.
- Remove abandoned bridge abutments and piers.

Sweet Grass County

High Priority

- Prioritize bridge replacement throughout the county, starting with the bridge over the Yellowstone River on Lower Sweet Grass Road near Greycliff.

OBJECTIVE 5.4 - Increase the public awareness of flood mitigation.

Broadwater County

High Priority

- Public education program targeting homes in or near the floodplain, ice jam, or dam failure inundation areas on flood mitigation options.

Medium Priority

- Disseminate flood hazard mapping to first responders and homeowners.
- Public education program on standard homeowner's insurance with emphasis on exclusions such as flooding and earthquakes and recent industry changes requiring wildfire defensible space in some areas.

Gallatin County

Medium Priority

- Education the public on flood insurance.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 5 - Mitigate the potential loss of life and property from flooding.

OBJECTIVE 5.5 - Improve the effectiveness of the flood insurance programs.

Gallatin County

Medium Priority

- Flood insurance education for the public.
- Map floodplain areas and join the National Flood Insurance Program in Belgrade, Manhattan and Three Forks.

Park County

Medium Priority

- Map floodplain areas and join the National Flood Insurance Program in the Town of Clyde Park.
- Join and obtain points for the Community Rating System of the National Flood Insurance Program in Park Co. and the City of Livingston.
- Educate the public on flood insurance.

OBJECTIVE 5.6 - Reduce the risk of dam or levee failure.

Gallatin County

High Priority

- Put early warning on Hyalite Dam.

Medium Priority

- Implement security measures at the dams to include early warning systems.

Park County

Medium Priority

- Investigate widening the channel near the City of Livingston levee by resloping the north bank in a terraced fashion in the area of the preliminary floodplain map cross sections #55,000 and #56,000.

GOAL 6 - Reduce impacts from severe winter weather.

OBJECTIVE 6.1 - Increase community capabilities to mitigate winter weather hazards.

Beaverhead County

High Priority

- Install an automated weather site (satellite communication) in the town of Wisdom to help Weather Service predict weather events.

Broadwater County

Medium Priority

- Develop and adopt a school policy regarding the use of buses in severe weather and educate school officials and bus drivers about weather decision making parameters.

Gallatin County

Medium Priority

- Become a National Weather Service Storm Ready Community in the incorporated cities and towns.

Park County

Medium Priority

- Become a National Weather Service Storm Ready Community.

OBJECTIVE 6.2 - Increase public awareness of winter weather hazards.

Broadwater County

Medium Priority

- Public information campaign on actions that will be taken by emergency services during weather events.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 7 - Reduce impacts from severe summer weather.

OBJECTIVE 7.1 - Increase community capabilities to mitigate summer weather hazards.

Beaverhead County

High Priority

- Install an automated weather site (satellite communication) in the town of Wisdom to help Weather Service predict weather events.

GOAL 8 - Reduce losses from hazardous material incidents.

OBJECTIVE 8.1 - Provide education, training on haz-mat incidents and response.

Beaverhead County

High Priority

- Continue working with Local Emergency Response Committee.
- Continue working with Disaster and Emergency Services.
- Purchase response equipment.
- Continue response planning and response training.

Medium Priority

- Continue identifying hazardous materials risk.

Broadwater County

Medium Priority

- Research and publish specific area information for regional HazMat teams that could assist them in mitigating impacts to the population in Broadwater County, an area not very familiar to them, during a hazardous material response.

Gallatin County

Medium Priority

- Develop emergency transportation plan that considers key roadways and intersections.

Madison County

High Priority

- Develop Hazmat response procedures for all emergency organizations.
- Develop, produce and distribute hazardous materials educational publications.
- Train 80% of all responders to Hazmat Awareness level and 20% of all responders to Hazmat Operations level.
- Develop and implement procedure for timely recovery in the event of a Hazmat incident.
- Develop county-wide Hazmat incident response plan and assure that all required mutual aid agreements are in place.
- Insure that procedures are in place for a quick response to and a timely clean up of a Hazmat incident.
- Develop early warning system to alert affected populations of a hazardous materials incident.

Park County

Medium Priority

- Study and construction of an additional railroad crossing.
- Develop an emergency transportation plan that considers key roadways and intersections.

OBJECTIVE 8.2 - Identify and secure hazardous materials locations and transporters.

Beaverhead County

High Priority

- Develop fixed site security and safety using local resources and homeland security resources.

Broadwater County

Medium Priority

- Secure the propane tanks with barriers from vehicles and trains and derailment guards to the railroad tracks.

Gallatin County

Medium Priority

- Improve mapping of hazardous materials fixed site locations and common transportation routes.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 8 - Reduce losses from hazardous material incidents.

OBJECTIVE 8.2 - Identify and secure hazardous materials locations and transporters.

Madison County

High Priority

- Conduct survey to determine type and amount of hazardous materials moving through Madison Co.

GOAL 9 - Reduce potential earthquake losses in seismically prone areas.

OBJECTIVE 9.1 - Provide for earthquake resistance in new construction.

Broadwater County

Medium Priority

- Strongly adhere to State codes for public buildings and develop residential building codes to meet earthquake resistance standards.

Madison County

High Priority

- Continued geologic review of proposed sub-divisions.
- Educate new home builders as to seismic building standards and earthquake fault locations.
- Assure all future infrastructure is earthquake resistant and built to seismic code.

OBJECTIVE 9.2 - Educate the public in earthquake mitigation and readiness.

Beaverhead County

High Priority

- Work with public schools to enhance education/training on earthquake preparedness.

Broadwater County

High Priority

- Study the potential for retrofitting critical facilities, such as the school, for earthquake resistance, and if feasible, retrofit those facilities.
- Develop better HAZUS GIS data through a cooperative program with the high school GIS/GPS classes.
- Public education program on earthquakes that teaches the residents the latest hazard information and simple home retrofits to be conducted at schools, churches, businesses and other gathering places.
- Educate public works/road & bridge employees on earthquake damage prevention measures for community infrastructure.

Medium Priority

- Provide regular earthquake prevention/educational items to the local media.

Gallatin County

Medium Priority

- Earthquake retrofit education for home and business owners.

Lewis & Clark County

High Priority

- Promote Earthquake Preparedness Month each October.

Madison County

High Priority

- Produce earthquake education brochures to educate populace of proactive measures regarding earthquake safety and mitigation.
- Initiate geologic review of existing subdivisions for educational purposes.
- Educate the public sector as to earthquake mitigation measures and assist in updating earthquake plans for public entities.

Park County

Medium Priority

- Educate home and business owners on simple earthquake retrofits.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 9 - Reduce potential earthquake losses in seismically prone areas.

OBJECTIVE 9.3 - Seismically retrofit existing critical facilities/infrastructure and government assets.

Gallatin County

Medium Priority

- Survey commercial structures for earthquake stability and recommend retrofits.
- Create a financial incentive program for major earthquake retrofits in priority hazard areas.
- Inspect key bridges for seismic stability.
- Retrofit critical facilities for earthquakes.

Lewis & Clark County

Medium Priority

- Seek funding to encourage homeowners to structurally retrofit their homes.
- Use the Potential Structural Seismic Hazards analysis for Helena School District to determine pursuit of structural mitigation projects.

Low Priority

- Promote brick chimney removal mitigation project.

Madison County

High Priority

- Assist in identifying and make recommendations in retro fitting unsafe public buildings with mitigation efforts.

Park County

Medium Priority

- Survey commercial structures for earthquake stability and recommend retrofits.
- Retrofit critical government facilities for earthquakes.
- Create a financial incentive program for major earthquake retrofits in the priority hazard areas.

OBJECTIVE 9.4 - Implement non-structural mitigation projects to harden State and community assets and infrastructure from seismic hazards.

Beaverhead County

High Priority

- Complete earthquake risk assessment at each public school and identify some mitigation project like filming windows and securing equipment.

Broadwater County

Medium Priority

- Survey local structures and provide information to emergency services (similar to old Sanborn maps).

Gallatin County

High Priority

- Tie down objects in critical facilities and vulnerable population locations that could fall during an earthquake.

Medium Priority

- Anchor transformers and generators for seismic motion during maintenance and new installations.
- Install expansion joints in underground utilities during new or replacement construction.

Lewis & Clark County

High Priority

- Provide strapping materials for water heaters to homeowners.

Madison County

High Priority

- Develop cost estimates to bring infrastructure to seismic code and make those identified improvements.
- Prioritize most vulnerable infrastructure.

Park County

High Priority

- Tie down objects in critical facilities and vulnerable population locations that could fall during an earthquake.

LOCAL MITIGATION PROJECTS

DES DISTRICT 3

GOAL 9 - Reduce potential earthquake losses in seismically prone areas.

OBJECTIVE 9.4 - Implement non-structural mitigation projects to harden State and community assets and infrastructure from seismic hazards.

Park County

Medium Priority

- Inspect key bridges for seismic stability.
- Anchor or stabilize electric transformers and generators for seismic motion during maintenance and new installations.
- Install expansion joints in underground utilities during new or replacement construction.

GOAL 10 - Reduce the likelihood of communicable disease outbreaks.

OBJECTIVE 10.1 - Reduce losses associated with a human health emergency.

Beaverhead County

High Priority

- Update and continue to enforce environmental laws, rules and regulations to protect air, soil and water of the county.
- Increase surveillance, communications planning with hospital and medical community.

Medium Priority

- Continue working with public health agencies.
- Support Public Task Order "PH Plan".

Gallatin County

Medium Priority

- Conduct a public education campaign on how to prevent the spread of disease.
- Establish a group made of area medical stakeholders to discuss disaster management and prevention issues.

Park County

Medium Priority

- Install a new ventilation system in the City/County Complex and other critical facilities.
- Conduct a public education campaign on how to prevent the spread of disease.
- Establish a group made of area medical stakeholders to discuss disaster management and prevention issues.

GOAL 11 - Encourage mitigation of potentially devastating but historically less frequent hazards.

OBJECTIVE 11.1 - Prevent losses from acts of terrorism, violence and civil unrest.

Beaverhead County

High Priority

- Continue to endorse training for WMD/Terrorism type events with the community responders and public health employees.
- Install fencing and motion sensors to activate lights at Dillon pump heads.
- Continue to train and equip emergency responders, public health workers and citizens in the area of terrorist activities using Homeland Security and Disaster and Emergency Services funds when available.

Medium Priority

- Develop more mature planning and exercising documents.
- Continue response and mitigation planning for WMD/Terrorist events.

Madison County

Medium Priority

- Assure functionality of Health Alert Network.
- Develop data base of providers with ability to track weekly reports and educate providers on tracking and reporting signs and symptoms of biological agents.
- Implement active surveillance system.
- Hire full time Public Health Officer.